



OF

VETERINARY DOSES

THERAPEUTIC TERMS

AND

PRESCRIPTION WRITING

BY

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PIERRE A. FISH

PREFACE TO FIRST EDITION

This manual has been prepared primarily as an adjunct to the laboratory and clinical work given by the writer. It is hoped that much of the information it contains will also be of use when the student becomes a practitioner, and that he may herein find, in compact and convenient form, data which will enable him to practise his profession with benefit to his patients and himself.

DECEMBER, 1904.

P. A. F.

PREFACE TO SECOND EDITION

Care has been taken in this edition to bring it up to date by making use of the changes recommended in the eighth revision of the U. S. Pharmacopoeia, which became official September I, 1905, so far as veterinary remedies are concerned.

The chapter on prescription writing has been rearranged and amplified, so that it may be of greater use to students as a guide or drill book for class room work. Prescription writing is difficult to the beginner, but with the work arranged on a graded plan the difficulties do not appear so insurmountable, and greater interest is likely to be developed.

A call for a new edition within a little over a year has been gratifying to the writer and he trusts that the additions that have been made will render the book still more useful.

APRIL, 1906.

P. A. F.

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DOSAGE OR POSOLOGY.

The most accurate system of dosage is to administer a given weight of medicine per kilogram or pound weight of the animal. Although this is frequently done in experimental work, the practice is attended with so much inconvenience when applied to the routine of the practitioner that the system is, for ordinary purposes, regarded as impracticable. A more or less arbitrary method is adopted by fixing the amounts to be given to the different animals. Except, perhaps, in the case of powerful medicines or poisons, there is considerable latitude allowed in the amount of the doses. In veterinary practice the dose for the horse is commonly taken as the standard and the doses of the other domestic animals may be reckoned from this. As for example:

```
If the dose for the horse is I (Say 2 ounces) the dose for the cow would be I\frac{1}{2} ( " 3 " ) Sheep and goat \frac{1}{5} ( " 3 drams) Swine \frac{1}{8} ( " 2 " ) Dog \frac{1}{15} ( " I " ) Cat \frac{1}{32} ( " \frac{1}{2} " )
```

In general the dose for the dog is about the same as the human dose, but the size of the dog must be considered. Reckoning from the dose for the dog or man as the standard; the pig would take twice as much, the sheep and goat three times as much, the horse sixteen times as much and the cow twenty-four times as much. The dose for the cat is usually one-half as much as for the dog. In

many cases the dose for the horse and cow would be the same; the higher dose for the cow is usually recommended on the ground of a slower rate of absorption because of the compound stomach and a larger mass of food with which the medicines mix before absorption may occur.

In the list of doses which follows, the horse and cow have been placed in the same group, and the sheep and swine have been placed in a group by themselves. The dose given in either case is the average dose, but from the explanation just given, the dose, in most instances, may be increased somewhat for either the cow or the sheep.

In a general way the doses of different preparations of drugs for the horse may be given upon the following basis. If there is error in this classification, it is upon the safe and conservative side of too little rather than too much. Poisons and powerful medicines are, of course, an exception.

Fluid extracts_____one fluidram
Powders (not alkaloids) ____one dram
Tinctures____one fluid ounce

Hypodermics of alkaloids are given usually at one-half the dose by mouth. Intravenous doses one-half or two-thirds of the hypodermic dose. Rectal doses should be the same as those given by the mouth. In the following tables the doses are intended for administration by mouth unless otherwise stated.

Some of the more important changes in the eighth revision of the Pharmacopæa 1905, as compared with the seventh revision, 1890.

ORUGS	U. S. P., 7th Revision, 1890	U. S. P., 8th Revision, 1905	
Crude and Powdered			
Aconite	No standard*	o.5 % Aconitine	
Belladonna Leaves	No standard	o.35% Alkaloids	
Belladonna Root	No standard	o.5 % Alkaloids	
Cinchona Bark	2.5% Quinine	4. % Ether-soluble-	
		alkaloids	
Coca Leaves	No standard	o.5 % Ether-soluble-	
		alkaloids	
Colchicum Root	No standard	o.35% Colchicine	
Colchicum Seed	No standard	o.55% Colchicine	
Conium	No standard	o.5 % Coniine	
Guarana	No standard	3.5 % Alkaloids	
Hydrastis	No standard	2.5 % Hydrastine	
Hyoscyamus	No standard	o.8 % Alkaloids	
Ipecac	No standard	2.0 % Alkaloids	
Jalap	Alcohol-soluble	***	5
•	Resin, 12%	8.0 %	e 1
	Ether-soluble		
	Resin, 1.2%	+ %	2

*No alkaloidal standard.

^{**}The + and - signs stand for the raising or lowering of the standard.

U. S. P., 8th Revision, 1905	chnine orphine — orphine — er-soluble	aloids aloids	aloids thicine aloids chuine phine er-Soluble ds aloids	nitine
	1.25% Strychnine 12-12.5% Morphine 12-12.5% Morphine 0.15% Ether-soluble	o.5 % Alkaloids o.35% Alkaloids	1.4 % Alkaloids 1.4 % Colchicine 0.3 % Alkaloids 5.0 % Strychnine 20.0 % Morphine 2.0 % Ether-Soluble Alkaloids 1.4 % Alkaloids	0.4 % Aconitine
U. S. P., 7th Revision, 1890	No standard 13-15% Morphine 13-15% Morphine No standard	No standard No standard	No standard No standard No standard 15% total Alkaloids 18% Morphine No standard	No standard
	Nux Vomica Opium, Powd. Opium, Deod. Physostigma	Pilocarpus Stramonium Leaves	Belladonna Colchicum Root Hyoseyamus Nux Vomica Opium Physostigma	ID EXTRACTS Aconite Relladonna Root

								7							
U. S. P., 8th Revision, 1905	o.5% Ether-soluble	I.5 % Colchicine	o.45% Conjine	3.5 % Alkaloids 2.0 % Hydrastine	0.075% Alkaloids	1.75% Alkaloids	0.4 % Allzaloids	o. 35% Alkaloids		+1	15%	25% Yellow Mercuric + Oxide	I part digests 25 parts starch		29% Anhydrous FeCl ₃ — 36% Fe ₂ (SO ₄) ₃ +
U. S. P., 7th Revision, 1890.	No standard	No standard	No standard	No standard No standard	No standard	No standard r.5% Total Alkaloide	No standard	No standard		%%	30%	20% Yellow Mercuric Oxide	No standard		37.8% Anhydrous FeCl ₃ $28.7%$ Fe ₂ (SO ₄) ₃
	Coca	Colchicum Seed	Conjum	Hydrastis	Hyoscyamus	Ipecac Nux Vomica	Pilocarpus	Stramonium	OINTMENTS	Chrysarobin Phenol	Sulphur	Oleate Mercury	Pancreatin	SOLUTIONS	Ferric Chloride Ferric Tersulphate

1890 . U. S. P., 8th Revision, 1905 ide 4 cc. Tr. Ferric Chloride in 100 cc. +	```	0/0	10%. 0.45% Aconitine .—	10%. 0.035% Alkaloids -	+ %07	+ %01		10%. 0.05% Colchicine —	10%01	13.28%		10%. 0.007% Alkaloids —	5%	10%
U. S. P., 7th Revision, 1890 2 cc. Tr. Ferric Chloride in 100 cc.	. 7001		35%	15%	10°18	2000	, , , , , , , , , , , , , , , , , , ,	15%	15%	13.6%	20%	15%	%oI	2000
Iron and Ammonium Acetate	RUP	renous rounce	Aconite	Belladonna Leaves	Calumba Cannabis Indica	Cantharides	Capsicum	Colchicum Seed	Digitalis	Ferri Chloridi	Hydrastis	Hyoscyamus	Kino	Lobelia

0.1% Strychnine 1.2–1.25% Morphine 1.2–1.25% Morphine 10%. 0.014% Alkaloids 20% + 10%	20% 10%. 0.03% Alkaloids — 10%. 4 20% + 10% —
0.3% Total Alkaloids 1.3–1.5% Morphine 1.3–1.5% Morphine 10% 10%	
Nux Vomica Opium Opium, Deodorized Physostigma Quassia Rhubarb Sanguinaria	Squill Stranonium Strophanthus Tolu Veratrum

U. S. P., 8th Revision, 1905

U. S. P., 7th Revision, 1890

WINE

-	+	various preparations
10%	%02	in the variou
		strength
15%	15%	dennite alkaloidal
		dennite
		æ :
Colcultum Seed	Tilen	The changes in ravor of a definite alkaloidal str
		0

represents a decided advance in therapeutic accuracy.

reduced to 10% and the weaker ones increased to 10% or 20%; so that a greater uni-The tinctures, perhaps, show the most radical changes, the stronger ones being

formity exists and the work of the practitioner is facilitated.

From the veterinary standpoint, the tinctures are not so commonly used as the fluid extracts, and except in the case of the tinctures of aconite, veratrum and a few others the dosage is not materially affected.



VETERINARY DOSES

	HORSE	HORSE AND COW	cow		SHEEF	SHEEP AND SWINE	WINE		DOG
	Apoth.	\ Metric.	M	etric.	Apoth.		Metric.	Apoth.	Metric
Acetanilid (Antifebrin)	1- 6 dr.	4 24.	1	24.	$\frac{1}{4} - \frac{1}{2} dr$. I. – 2.	I.	- 2.	2-10 gr.	0.13 - 0.6
Acetozone Acid Acetic Dil	T_ 0 07	2		9	T_ 0 01		œ	3-10 gr.	0.2 - 0.6
Arsenous	3- 6 gr.	0,2	1	0.4	1/2 I gr.	0.03	90.0	12-1 di.	0.00I - 0.00
Benzoic	2-8 dr.	8		30.	1/2- I dr.		- 4.	5-15 gr.	0.3 - I.'
Boric	2- 6 dr.	×.		24.	$\frac{1}{12}$ I dr.		- 4.	5-15 gr.	0.3 - I.
(Boracic)									
Carbolic	15-30 gr.	ĭ.	ı	2.	5-10 gr.		9.0 -	I- 2 gr.	
Citric	$\frac{1}{2}$ I oz.	15.	1	30.	$\frac{1}{12}$ 1 dr.	5.		10-20 gr.	
Gallic	1/2- 2 dr.	5	1	∞ o	IO-30 gr.			5-15 gr.	0.3 - I.
Hydrobrom)				
ic Dil.	2- 6 dr.	∞ ∞	1	24.	I- 2 dr.	4.	œ 1	20-60 m.	I.3 - 4.
Hydrochlor	18.								
ic Dil.	1/2- 4 dr.	5.	.1	_ I5.	10-30 m.	0.6	- 2.	3-10 m.	0.2 - 0.6
Hydrocy.									
anic Dil.	20-60 m.	1.3	1	4	2-Io m.	0.13	9.0 -	I- 5 m.	
Lactic	I- 2 dr.	4	1		10-40 m.	0.0	- 2.6	5-20 m.	0.3 - I.3
Nitric Dil.	1- 4 dr.	4	1	15.	5-30 m.	0.3	- 2.	3-15 m.	
Nitro-hydro-	-								
chloric Di	chloric Dil. 1-2 dr.	4	ţ	∞	5-20 m.	0.3	- I.3	2-IO m.	0.13 - 0.6

	2.	I.		Ι.		I.	Ι.	1.3	I.3	90.0	0.02	90.0	0.13	0.5		90.0	0.001	c	7.
	1	I		1		I	1	- 9	1	- 90	- 90	- 90	3 -	3 -		- 910.0	0.0003-		1
	0.3	0.3		0.3							900.0								٥. د
	0 m.	S gr.		5-15 m.		5 m.	5 m.	o gr.	o gr.	I gr.	10-1/3 gr.	I m.	2 m.	8 m.		I m.	0.0006- 0.001200-50 gr.	\$	10-30 III.
		5-15		5-I		5-1	5-1	I-2	5-2	10-	$\frac{1}{10} - \frac{1}{1}$	10-	1/2-	7-		74	200	, C	
	- 2.6	2.		4		4	4.	».	4.	0.13	0.006 - 0.03	0.13	0.25	Ι.		0.13	0.001		- 4.
	į	1		1		-1	-1	1	1	13 -	- 90	- 61	- 0	1		3 -	-900		1
	9.0			1.3		5.	I.3	2.	I.	0.0	0.00	0.0]	0.0	0.2					7.
	o m.	15-30 gr.) III.		o m.	o mi.	2 dr.	o gr.	gr.	gr.	m.	m.	4-15 m.		2 m.	ggr.	7	dI.
	IO-4	15-3		20-60 m.		30-6	20-60	1/2- :	15-6	1	10-1/2 gr.	4	7 -I	4-I		1/2-	100-50 gr.	1/ 1 20	1/2 =
																Ι.	006 _I		2
		24.		30.		24	30	15	30	H	0.3	I.	5	9					
	1	1		1		1	1	1	.1	1	3 -	1	1	1		1	0.002-		1
	4	4		တံ		∞	∞	5.	∞.	0.3	0.13	0.3	0.0	2.		0.3	0.0	,	A.
	dr.	dr.		dr.		dr.	dr.	dr.	dr.	gr.	gr.	m.	m.	dr.		ш.	gr.	-	ı.
	1_ 6 dr.	9 -I		2-8		2-6	2-8	12-4	2-8	5-I5	2-5	5-15	10-30	3- 13 dr.		5-15	$\frac{1}{30} - \frac{1}{10}$ gr.	,	Sol. I- 1000 I- 4 dr.
ic	6		e)		6)		sn						(00	5)	1			1	000
phor		ylic	huric	n.	huric		buro	ic	ric	wd.	act	Fld	(1890	(I9	E.	100		1	-
Phos	Dil.	Salic	Sulphuric	Arom	Sulphuric	Dil.	Julp	Tannic	[arta	te Powd	Extract	以本tr.	Tinct. (186	Tinct.	Tinct, Flem	ing's	ine	lin	c
		3,1	3,1		32		31	,	,	onit		_		_			oniti	retia	
										Ac							Ac	Ad	

In general, the dose for the cat is ½ the dose for the dog. Hypodermics of alkaloids usually 1/2 the dose by mouth.

	HORSE AND COW	AND	COW		SHEEP A	AND SWINE	/INE		DOG	
	Apoth.		Metric.	ic.	Apoth.		Metric.	Apoth.		Metric.
Alcohol	I- 2 0Z.	30.	ì	.09	I- 2 dr.	4	×.	1/2- 1 dr.	6.	- 4.
Aloes	2-10 dr.	œ	1	40.	1- 4 dr.	4	-15·	2-60 gr.	0.13	- 4.
Aloin	2- 3 dr.	∞.	ŀ	12.	10-30 gr.	9.0	1 2.	I- 5gr.	90.0	- 0.3
Alum	I- 3 dr.	4	1	12.	1/2- I dr.	5.	- 4.	5-15 gr.	0.3	- I.
Ammonia Water	1- 2 dr.	4	1	∞ ∞	1/2- I dr.	5.	- 4.	2-IO III.	0.13	9.0 -
Spirit	$\frac{1}{2}-1\frac{1}{2}$ oz.	15.	1	45.	I- 2 dr.	4	∞° 1	5-30 m.	0.3	- 2.
Spt. Arom.	$\frac{1}{2}-1\frac{1}{2}$ oz.	15.	3	45.	I- 2 dr.	4	م	5-60 m.	0.3	- 4.
Ammonium Acetat	te Sol.									
(Spt. Mindererus)	2- 6 oz.	.09	1	180.	$\frac{1}{2}$ I oz.	15.	-30	1- 4 dr.	4	-15.
Benzoate	$\frac{1}{2}$ - 8 dr.	5.	- 1	30.	10-60 gr	9.0	- 4.	5-15 gr.	0.3	- I.
Bromide	1/2- 2 OZ.	15.	1	.09	1/3- 2 dr.	1.3	· &	10-60 gr.	0.6	- 4.
Carbonate	1- 3 dr.	4	1	12.	15-40 gr.	I.	- 2.6	I-8 gr.	90.0	- 0.5
Chloride	I- 4 dr.	4	1	15.	30-60 gr.	2.	- 4.	2-15 gr.	0.13	- I.
Iodide	I- 4 dr.	4	1	15.	30-60 gr.	2.	- 4.	2-10 gr.	0.13	9.0 -
Phosphate	I- 4 dr.	4	i	15.	30-60 gr.	5.	- 4.	2-20 gr.	0.13	- I.3
Valerianate	1/2- 2 dr.	2.	1	∞ ∞	10-20 gr.	9.0	- I.3	I- 5gr.	0.06	- 0.3
Amyl Nitrite	5-15 m.	0.3	1	ı.	I- 7 m.	90.0	- 0.5	1/2- 3 m.	0.03	- 0.2
Amylum Iodatum	$\frac{1}{2}$ 2 0Z.	15.	1	.09	1/2- 2 dr.	5.	× 0	3-30 gr.	0.5	- 2.
(Iodized starch))		
Anise Seed	$\frac{1}{2}$ I OZ.	15.	Ī		2- 3 dr.		-I2.	20-50 gr.	I.3	- 3.3
Spirit	1/2- I OZ.	15	1	30.	2- 4 dr.	∞	-I5.	1- 2 dr.	4	000

]	7								
	- 0.25	000 - 900	6 - 0.5		0.002 - 0.013	- 4.			- I.3	- 2.6	- I.3	0.0 -	- I.3	OI - 0.005	oi - 0.006	3 - 0.6			0.13 - 0.6	
	0.6	0.0	0.0		0.0	I.			0.6	I.	0.6	0.3	0.6	0.0	0.0	0, I			0. I	
	I- 4 gr.	1-1-14 gr.	I- 8 gr.	0	$0.004 - 0.021 \frac{1}{20} - \frac{1}{2}$ gr.	15-60 gr.			IO-20 gr.	. 48. I5-40 m. I	10-20 gr.	5-10 gr.	10-20 m.	1-1 gr.	5 2 - 1 gr.	2-IO m.			2-IO m.	
	0.25 - 0.6	0.03 - 0.2	D.3 - I.3		0.004 - 0.02	2. – 6.			4 8.	4 8.	× 1	2 4.	- × ·	0.03 - 0.06	0.009 - 0.04	4.			2 4.	
	gr. (Z.	Zr.		T.	lr.			lr.	lr.	Ir. 4	lr.	lr. 4	T. C	(r. 0	r. 2				
	4-10	1/2- 3 gr.	5-20	,	18-1/2	1/2-14 dr.	1		I- 2	I- 2 dr.	I- 2 d	1/2- I ¢	I- 20	1/2- I g	1-34 8	1/2- I d			1/2- I dr.	
netic)		°	12.		0.032	30.	,	0.13	30.	30.	30.	15.	30.	0.4	0.4	30.	,		30.	
Cartar En		2	4.		-910.0	I.5		0.03 -	I.S	15 30.	15	00.	I5	0.2 -	0.13 -	8 .			8.	
s. Tartras (7		1/2- 2 dr.	1- 3 dr.	,	$\frac{1}{4} - \frac{1}{2}$ gr.	1/2- I OZ.	comate	1/2- 2.gr.	1/2- I OZ.	1/2- I OZ.	1/2- I OZ.	1/4-1/2 02.	1/2- I OZ.	3- 6 gr.	2- 6 gr.	i 2-8 dr.	<u></u>		2-8 dr.	
Antimon, et Potass. Tartras (Tartar Emetic)	Emetic	Expectorant $\frac{1}{2}$ - 2 dr.	Antipyrin	Apomorphine Hy-	drochlorate	Areca Nut	Arecoline Hydrobi	(Hypodermic)	Arnica Flowers	Tincture 1/2- 1 oz.	Root	Fluid Ext.	Tincture	Arsenic	Arsenic Iodide	Liq. Ac. Arsenos	(Sol. Arsen. Acid	Liq. Arseni et Hy	drargyri Iodidi 2-8 dr.	(Donovan's Sol.)

In general the dose for the cat is 1/2 the dose for the dog. Hypodermics of alkaloids usually 1/2 the dose by mouth.

												3									
	Metric.		0.13 - 0.0				2 4.		T A.		I 4.	0.0006-0.000	0.6 - 4.	0.6 - 2.	0.3 - I.3	0.02 - 0.06			0.13 - 0.3	0.008 - 0.03	I. – 2.
DOG	Apoth. Metric.		2-10 III.				1/2 - 1 dr.		15-60 m	12 00	15-60 m.	00-20 gr.	}- I dr.	$\frac{1}{6} - \frac{1}{2} dr$.	5-20 gr.	1/3− I gr.			2- 5 gr.	1/8-1/2 gr.	15-30 m.
SWINE	Metric.	' .	2. 14.				4.		00		4 8.	0.004-0.005	2 8.	4 8.	2 4.	0.13 - 0.3			0.6 - 1.3	0.13 - 0.25	4 8.
SHEEP AND SWINE	Apoth.			1/2 r dr.					T. 0 0 T	1 - 2 ui.	I- 2 dr.	$\frac{1}{15} - \frac{1}{12}$ gr.	I- 2 dr.	I- 2 dr.	$\frac{1}{2}$ I dr.	2- 5 gr.			10-20 gr.	2- 4 gr.	I- 2 dr.
cow	Metric.		- 30.				1 1			1	i	1	1	I	1	တိ	I		- 30.	I.3	- 30.
HORSE AND COW	Apoth. M		8 dr. 8.				2- 402. 00.									I- 2 dr. 4.			I oz. 8.	10-20 gr. 0.6	
	Apo	Liq. Potass. Arsenitis	(Fowler's Sol.) 2-8 dr.	ਲ			incluic 2-											es,		Ext. alc. 10-20	ct. 1/2-
		Liq. Pota	(Fowle	Liq. Sod	A cofetials	Asaleuda	Acolopiae	Ascrepias	(Pleurisy Koot)	Aspidium,	Olec	Atropine Sulph	Balsam Co	Per	Tolu	Barium Chlorid	(Intravenous)	Belladonna Leav	Pow	HXt	Tin

In general the dose for a cat is 1/2 the dose for the dog. Hypodermics of alkaloids

	HORSE	and c	ΜO		SHEEP A	WD SW	INE		DOG		
	Apoth.		Ietri		Apoth.		Metric.	Apoth.		Metric.	
4)	2- 4 dr.	∞	i	- 15.	1/2- I dr. 2 4.	2.	- 4.	5-20 gr.	0.3	- I.3	
ip,	I- 2 OZ.	30.	1		2- 4 dr.	∞	-I5.	10-60 gr.		- 4.	
•	1- 2 dr.	4	i		10-30 gr.	9.0	- 2.	I-IO gr.		9.0 -	
)						
phite	I- 3 dr.	4	1	12.	10-30 gr.	9.0	- 2.	2- 5 gr.		- 0.3	
Iodide	1/2- I dr.	5	1	4	5-10 gr.	0.3	9.0 -	I- 3 gr.	0.00	- 0.2	
	2- 4 dr.	∞°	1	15.	1- 2 dr.	4	∞ 1	5-20 gr.		- I.3	
	10-60 gr.	9.0	1	4	I-10 gr.	90.0	9.0 -	1/2- 2 gr.		- 0.13	
	1/2- I dr.	2.	1	4	2-IO gr.	0.13	9.0 -	I- 5 gr.		- 0.3	-2
	1/2- I OZ.	15.	1	30.	1- 2 dr.	4.	∞ 1	15-30 m.		2.	U
Calumba	1/2- I OZ.	15.	1	30.	I- 2 dr.	4	° -	5-30 gr.			
	1/2- I OZ.	15.	ī	30.	I- 2 dr.	4.	∞.	5-30 m.		- 2.	
	2- 4 oz.	.09	1	120.	3- 6 dr.	12.	-24.	I- 4 dr.		-15·	
	1/2- 2 dr.	2.	į	∞.	5-ro gr.	0.3	9.0 -	I- 3 gr.	90.0	- 0.2	
	1- 3 dr.	4	1	12.	15-60 gr.	Ι.	- 4.	3-10 gr.		9.0 -	
OIIIO	1- 4 dr.	4	1	15.	5-20 gr.	0.3	- I.3	2-IO gr.		9.0 -	
	I- 2 0Z.	30.	1	.09	2- 4 dr.	oč	-15.	1/2- I dr.		- 4.	
ca (I	ndian Her	(du									
	I- 2 dr.	4	1	∞ ਂ	2-IO gr.	0.13	9.0 -	14- I gr.		90.0 -910.0	
	2- 6 dr.	∞ `	ī	24.	15-60 m.	·I.	- 4.	3-10 m.		9.0 -	
Tinct.	4-12 dr.	15.	1	45.	1/2- I dr.	2.	- 4.	15-30 m.		- 2.	

I- 2 gr. 0.06 - 0.13	5-15 m. 0.3 - I.				1/4 - 1 m. 0.016 - 0.06					,	0.0	9.0	4	4	5-30 gr. 0.3 - 2.		10-30 gr. 0.6 - 2.
4-8 gr. 0.25 - 0.5	0.6 - 2.	0.3 - I.	0.3 - I.	0.3 - I.	- 0.5	I.3 - 4.	0.6 - 2.	412.	4 8.	1/2 - 1 dr. 2 4.	∞	သံ	12.	12.	0.6	0.65	I- 2 dr. 4 8.
0.3 - 1.3 4	- 4.	- 2.	- 4.	- 4.	2.	- 15·	∞° 1	- 60.	- 30.	8 15. 1/2	- 60.	- 60.	- 90.	- 90.	- 45.	- 45.	30.
Cantharides 5-20 gr. (Spanish Fly)	5- I dr.	5-30 m.	5-60 gr.	5-60 m.	5-30 m.	2- 4 dr.	r- 2 dr.	,- 2 oz.	- I oz.	2- 4 dr.	I- 2 OZ.	I- 2 0Z.	2- 3 oz.	2- 3 oz.	2-12 dr.	2-12 dr.	Cascarilla Bark Fld. Ext. $1/2$ – 1 oz.
Canth	1		Capsid					Carbo		Carbo	Carda				Casca		Casca

In general the dose for the cat is 1/2 the dose for the dog. Hypodermics of alkaloids

	Apoth. Metric.	½- 1 dr. 2 4.	4	0.3	0.3	5.	0.06		0.13	9.0	9.0	0.3	9.0	0.13	0.3	1/2-2 dr. 28.		gr. 0.3	10-30 gr. 0.6 - 2.	m. 0.6
SHEEP AND SWINE	h. Metric.	8. – 15.	.o 120.	4 8.	4 8.	8. – 15.	0.25 - 0.5		0.3 - 0.6	2 8.	8. – I5.	4 8.	4 8.	0.3 - 2.	0.6 - I.3	4 15.		4 8.		4 8.
	Metric. Apoth.	- 60. 2- 4 dr.														120. I- 4 dr.		60. I- 2	60. I- 2	.45. I- 2
HORSE AND COW	Apoth, M	I- 2 oz. 30	I pt. 500.	$\frac{1}{2}$ - I oz. 15.	1/2- I oz. 15.	I- 2 oz. 30.	½-1 ½ dr. 2.		2-1 1/2 dr. 2.	1/2-2 oz. 15.	I- 2 oz. 30.	I- 2 oz. 30.	1/2- I oz. 15.	1/2-3 dr. 2.	1/2-3 dr. 6.	I- 2 oz. 60.		I- 2 0Z.	I- 2 02. 30	30.
		Castanea, Fld. Ext.	Castor Oil	Catechu	Fld. Ext.	Comp. Tinct.	Caulophyllin	(Blue Cohosh)	Cerium Oxalate	Chalk, Comp. Powd.	Prepared	Chamomile	Charcoal	Chaulmoogra Oil	Chenopodium Oil I	Chimaphila, F. E.	(Pipsissewa)	Chloral Hydrate		Chlorodyne

kt. Comp Comp Comp Comp Comp Comp Comp Comp	cs of alkalo	412.	0.0	0.00 - 0.3	5.0	9 6	700	0.5 - 1.	00.0)	2.	0.0	0.3	9.0	0.6			0.13 - 1.3
8 4	Hypodermic	1-3 dr.	10 m. – z ai.	I-5 m.	5-20 81.	I – 3 &I.		7-15 gr.	I- 3 gr.		$\frac{1}{2}$ 4 dr.	10-60 m.	5-30 gr.	10-60 gr.	10-60 ш.	5-30 m.	$\frac{1}{2}$ 1 dr.	2-20 m.
8 4	the dog.	03 - 0.1	- 30.	3 - 0.0	.0 -	4 - T.		5 - 3.3	- I.									
8 4.	lose for t	½ gr. 0. I oz. 15.	I oz. 15.	om. o.	2 ar. 4.	5 gr. o.		ogr. 2.	5 gr. 0.4		oz. 15.	4 dr. 4.	dr. 2.	dr. 4.	4 dr. 8.	3 dr. 4.		
8 4.	1/2 the d										1/2-	I-	1/2-	I	2-	-L	2- 4	20-30
6 (4.	at is	- 0. - 120.	- 120.	- 6.	- 30.	- 4.		- 20.	- 4.		- 120.	- 24.	· ∞ _	- 24.	- 90.	- 60.		
8 4.	the c	0.3	0.	2.	5.	I.3		∞°	1.3		.09	∞°	4.	್ರಹ	30.	00t) 8.	30.	4.
orm uga, (Black l. Ext. 2 c ret. tr. l. Ext. ct. Comp. nine Sul- nine	dose for		I- 40Z	1/2- 11/2	4-8 dr.	20-60 gr		2- 5 dr.	20-60 gr.		2- 4 oz.	2- 6 dr.	I- 2 dr.	2- 6 dr.	I- 3 0Z.	Snake Ko lr 2 oz.	I- 2 OZ.	I- 2 dr.
iorna pirit. H.	neral the	te Oil	Ext.				ine Sul-	yretic	Tonic	e Sul-	Comp.	xt.		Bark		ι, (Black ໂxt. 2 d	īt.	
Cocai, M. (O),	In ge	chlora Cod Liver	Coca, Fld.	Oil	Cinnamon	phate	Cinchonid	Antip	phate,	Cinchonine Sul-	Tinct.	Fld. E	Extr.	inchona	Tinct.	Cimicifugs Fld. F	Spir	Chloroform

	HOR	HORSE AND	cow		SHEEP	SHEEP AND SWINE	WINE		DOG	
	Apoth.		Metric.	ric.	Apoth.		Metric.	Apoth.	Metric.	ei
	6-30 gr.	0.4	ı	ì		0.03	- 0.2	14-2 gr.	0,016 0,1	53
1,1	16-1/2 gr.	0.01	1			0.002	- 0.004	0 c 50 gr.	0.0006-0.00	012
Colement Root	72 - 2 dr.	٠; د	ı			0.0	- I.3	2- 5 gr.	0.03 - 0.3	
Tinct. (1890) 3-8 dr. 12 30.	3-8 dr.	12.			10-20 m. 1/2- 1 dr.	0°0	$\frac{2}{2}$ - $\frac{4}{1}$ $\frac{7}{1}$	2-5 m.	0.03 - 0.3	
Tinct (1905)	4-12 dr.	15.	- ,4			4.	- 6,	5-45 m.	I 2.	
Wine	3-8 dr.	12.	. 3			. 2	- 4.	0-30 m.	0.6 - 2.	
Collargolum										
Intravenous	7-20 gr.	0.5	ı	1.3	2- 4 gr.				0.06 - 0.1	
Colocynth	1- 3 dr.	4	1	2.	6-15 gr.				0.2 - 0.5	
Colocynthin	1/2- I dr.	2.	1	4.	5-10 gr.				0.016 - 0.0	9
Condurango, F. E.	$\frac{1}{2}-1\frac{1}{2}$ oz.	15.	1,	45.	1/2- I dr.	5.	- 4.	20-30 m.	1.3 2.	
Confine Hydrobro-									,	
mate 34-1½ gr.	¾-1½ gr.	0.045	1	O. I	5- 2 gr.	0.013	0.013- 0.026 g		0.001 - 0.0	02
Conjum (Hemlock)	I- 2 dr.	4		∞°		0.0	- I.3		0.13 - 0.3	
HXt.	2-24 gr.	0.72		1.5		0.13	- 0.25		0.016 - 0.0	9
Fld. Ext.	I- 2 dr.	4.		οć		9.0	- I.3		0.13 - 0.3	
Convallamarin	10-30 gr.	9,0		2.		0.13	- 0.3		0.03 - 0.I	3
Convallaria, F. E.	I- 2 dr.	.		xî		- 9.0	- I.3		0.3 - 0.6	
Copaida	½− 3 oz.	Š.		0.		4.	-12.		0.3 - 2.	

Cornus, Fid. Ext. $\frac{4}{3} - 2$ or. $\frac{4}{3} - \frac{8}{3}$ or. $\frac{5-20}{3}$ gr. $0.001 - 0.002_{2}\frac{1}{3}0 - \frac{1}{3}$ gr. $0.005 - 0.006$ Subpare $1-2$ dr. 4 -8 -8 $3-20$ gr. $0.3-1.3$ $\frac{1}{4}-2$ gr. $0.005-0.0006$ Subpare Sublivation of $\frac{1}{2}$ substance Substanc												-	2 5							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.016 - 0.13	0.0003-0.0006	0.016 - 0.12	0.6 - L.		8000 - 2000		2 4	0 0 0 - 000	0,00	0.02 - 0.12	0.03	0.02 = 2.0	0.002 - 0.01	0.0006-0.0018		0.6 - 2.	0.6 - 4.	0.0005- 0.003	500
4 8. $\frac{5-20 \text{ gr. 0.3}}{5-20 \text{ gr. 0.3}}$ 6.06- 0.25 $\frac{10-3}{5-20 \text{ gr. 0.00}}$ 15 60. $\frac{1}{12}$ - 2 dr. 2. 1. 2 gr. 0.06 15 60. $\frac{1-2 \text{ dr. 4}}{12}$ - 1 dr. 2. 1. 2-1 dr. 4. 1. 2. 1. 2-1 dr. 2. 1. 2-1 dr. 3. 1. 1. 2-1 dr. 3. 1. 1. 1. 2-1 dr. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	14-2 gr.	346-13 Pr.	14- 2 PT.	10-60 m.		1-1/6 OT.	30 /08	1/2 I dr.	T- 5 m	10-20 m	1/2 - 2 m.	5-TO OT	1/2 - 2 m.	10- 2 gr.	1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 40 0-1	10-30 ш.	10-60 m.	1 1 0 - 1 Or.	120 20 021
4 8. 5-20 gr 0.06- 0.25 5-20 gr 15 60. 72- 2 dr 15 60. 1-2 dr 15 60. 1-2 dr 15 60. 1-2 dr 15 30. 72- 1 dr 16 15. 15-30 gr 17 30. 15-30 gr 18 24. 72- 1 dr 19 60. 3 78-75 gr 19 15. 15-30 gr 19 15. 15-30 gr 19 16. 1 dr 19 16. 1 dr 10 16. 1 dr 10 16. 1 dr 10 16. 1 dr 10 16. 1 dr 1	0.3 - I.3	0.00I-0.002	0.3 - I.3	2 8.		0.06 - 0.13	0	4 8.	0.6 - 1.2	2 4.	0.2 - I.	I. – 2.	0.3 - 0.6	0.008- 0.02	0.0012- 0.003		2 4.	4 8.	0.00I- 0.006	
Arsenite 1-2 dr. 4 8. Arsenite 1-4 gr. 0.06- 0.25 Sulpha Ext. 1/2-2 oz. 15 60. Corrosive Subli- mate 5-8 gr. 0.3 - 0.5 Cotton Root Bark 1/2-2 oz. 15 60. Ecbolic 1/2-2 oz. 15 60. Creolin Anthelmintic 1/2-1 oz. 15 30. Creosote 15-30 m. 1 2. Croton Chloral 2-4 dr. 8 15. Oil 15-30 m. 1 2. Curare 1-5 gr. 0.06- 0.3 Curarine 1-5 gr. 0.012- 0.03 Cypripedium, Fld. Ext. (Lady Slipper) 2- 6 dr. 8 24. Damiana, Fld. Ext. 1/2-1 oz. 15 30. Datariana, Fld. Ext. 1/2-1 oz. 15 30.	5-20 gr.	60-30 gr.	3-20 gr.	1/2- 2 dr.		1- 2 gr.	0	1- 2 dr.	IO-20 m.	1/2 I dr.	5-15 m.	15-30 gr.	5-10 m.	1/8-1/2 gr.	10 - 10 OI.	0 0 7 0 7	1/2- I dr.	1- 2 dr.	$\frac{1}{60} - \frac{1}{10}$ gr.	15-20 or
Arsenite 1-2 dr. 4. – Arsenite 1-4 gr. 0.06– Sulphate 1-2 dr. 4. – Cornus, Fld. Ext. ½-2 oz. 15. – Cotton Root Bark	'n	0.25	တံ	.09		0.5	•	.09	∞	30.	2.	15.	6	0.3	0.03		24.	30.	90.0	∞
Copper Acetate Arsenite Arsenite 1 - 4 gr. Sulphate 1 - 2 dr. Sulphate 1 - 2 dr. Corrosive Subli- mate Cotton Root Bark Ecbolic Anthelmintic 1 - 2 dr. Anthelmintic 1 - 2 dr. Anthelmintic 1 - 2 dr. 1 - 3 gr. 1 - 3 gr. 1 - 3 gr. 1 - 5 gr. 1 - 7 gr. Daturine 1 - 7 gr. Daturine 1 - 7 dr.	4.	-90.0	4.	I5)	0.3 -		I5	4	I.S	I	- ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	I	-90.0	0.012-		. %	.2.	0.03-	1.
Copper Acetate Arsenite Sulphate Cornus, Fid. Ext. Corrosive Sublimate Cotton Root Bark Ecbolic Creolin Anthelmintic Creosote Croton Chloral Oil Curarine Damiana, Fild. Ext. Daturine	I- 2 dr.	I- 4 gr.	I- 2 dr.	1/2- 2 02.		5-8 gr.		1/2- 2 OZ.	1- 2 dr.	1/2- I OZ.	15-30 m.	2- 4 dr.	15-30 m.	I- 5 gr.	1-1/2 gr.	Ext,	2- 6 dr.	1/2- I OZ.	1/2- I gr.	I- 2 dr.
	Copper Acetate	Arsenite	Sulphate	Cornus, Fld. Ext.	Corrosive Subli-	mate	Cotton Root Bark	Ecbolic	Creolin	Anthelmintic	Creosote	Croton Chloral	Oil	Curare	Curarine	Cypripedium, Fld.	(Lady Slipper)	Damiana, Fld. Ext.	Daturine	Diastase

In general the dose for the cat is 1/2 the dose for the dog. Hypodermics of alkaloids usually 1/2 the dose by mouth.

										20												
90	Metric.	0.0006	0.02 - 0.2	0.008 - 0.03	0.02 - 0.2	, 250 CO.0	4.	0.3	0.5 - 3.	I 2.						0.3 - 1.3						
	Apoth.	100 gr.									1 2	10-15 gr.	2-10 m.	5-10 gr.	30-60 m.	5-20 m.	I- 2 ar.	5-30 gr.	5-30 m.	20-12 ST.	100 to SI.	10-72 gr.
SHEEP AND SWINE	Metric.	0015- 0.003 ₁	0,002 - 0,000	0.3 - 1.	0.00	0.3 - 1.	15. –30.	2 6.	310.	2. – 4.		I. – 2.	2 4.	2 4.	4 8.	2 4.	8. –12.	2 4.	2 4.	0.006- 0.013	0.0012- 0.003	0.065-0.13
SHEEP	Apoth.	$\frac{1}{40} - \frac{1}{20}$ gr.	30 I O W.	5-15 81.	1- 2 gi.	, 5-15 m.	1/2- I OZ.	1/2-13 dr.	¾-23 dr.	1/2 - I dr.		15-30 gr.	1/2- I dr.	1/2- I dr.	1 - 2 dr.	1/2- I dr.	2-3 dr.	1/2- 1 dr.	1/2 - I dr.	$\frac{1}{10}$ $= \frac{1}{5}$ gr.	$\frac{1}{50} - \frac{1}{20}$ gr.	I- 2 gr.
		0.016	0.03	4	0.0	.	.80.	15.	24.	24.		20.	30.	30.	30.	24.	.09	15.	15.	0.13	0.13	
ND COW	Metric.	0.008	0.010-	0.0	0.3	- 9.0	60. – 1	. 8	12	8.		12. –	ı ∞	15	15	ا ∞	30. –	4.	4	0.03 -	0.015-	
HORSE AND	Apoth.	1/8-1/4 gr.	¼ - ½ gr.	10-60 gr.	5-10 gr.	10-60 m.	2- 6 oz.	2- 4 dr.	3- 6 dr.	t. 2- 6 dr.		3- 5 dr.	n 2- 8 dr.	1/2 - 1 oz.	1/2- I OZ.	2- 6 dr.	I - 2 OZ.	1- 4 dr.	1- 4 dr.	1/2- 2 gr.	14-2 gr.	
		Digitalein	Digitalin	Digitalis	Ext.	Fld. Ext.	Infusion	Tinct. (1890)	Tinct. (1905)	Dioscorea, Fld. Ex	(Wild Yam)	Diuretin	Donovan's Solutio	Dovers Powder	Dracontium, F. E.	Duboisia, Tinct.	Dulcamara, F. E.	Echinacea, Powd.	Fld. Ext.	Elaterin	Emetine, Expect.	Emetic

								2										
	- 4.	9.0 -	- 4.	∞ -	- 0.03	- 4.		00.0 -9	- 4.	- 4.	- 4.		∞ 1	- I.3	- I.	- 4.	- 0.4	- I.
	2.	0.13	2.	2.	0.015	Ι.		0,000	9.0	9.0	9.0		2.	0.3	0.3	9.0	90.0	0.3
eep.	1/2- I dr.	2-10 gr.	1/2- I dr.	1/2- 2 dr.	14-1/2 gr.	15-60 m.		100-30 gr.	10-60 m.	10-60 m.	10-60 m.		1/2- 2 dr.	5-20 m.	5-15 m.	10-60 m.	I- 6 gr.	5-15 gr.
-I80.	. 8	- I.3	× 1	-I5.	- 0.0	∞ -		04- 0.013	-15.	-I5.	-15.		-24.	- 3.3	- 2.6	- 8	- I.	- 2.
20.	4	0.0	4	4	0.0	5		0.0	∞ o	∞°	∞							
4- 6 oz. I	r- 2 dr.	10-20 gr.	1- 2 dr.	I- 4 dr.	1/2- I gr.	1/2- 2 dr.		15- 3 gr.	2- 4 dr.	2- 4 dr.	2- 4 dr.		2- 6 dr.	20-50 m.	15-40 m.	1/2- 2 dr.	5-15 gr.	10-30 gr.
-1000.	- 30.	- 4.	- 30.	- 60.	- 0.25	- 60.		- 0.I	- 60.	- 60.	- 120.		- 90.	- i5.	- I2.	- 60.	∞ -	- 1
.00	15.	I.3	15.	15.	0.13	15.	.e	90.0	30.	30.	30.	>	.09	∞	4	15.	2.	00
- 2 lb. 5	- I OZ.	-60 gr.	,- I oz.	2- 2 OZ.	2- 4 gr.	2- 2 OZ.	Salicylat	I-I g gr.	I- 2 OZ.	I- 20Z.	I- 4 oz.		2- 3 oz.	2- 4 dr.	1- 3 dr.	1/2- 2 OZ.	1/2 - 2 dr.	2- 5 dr.
(Purg.) cow I	Ergot 1/2	Ext. 20	Fld. Ext. 1/2	Tinct.	Ergotin (Hypo.)	Briodictyon, F.E.	Eserine Sulphate or	(Hypodermic)	Ether	Spirit	Nitrous, Spirit	(Sweet Spt. Nitre)	Eucalyptus, F. E.	Oil	Eucalyptol	Eupatorium, F. E.	Exalgin	Fel. Bovis (Ox Gall)
	I- 2 lb. 5001000. 4- 6 oz.120180. sheep.	1-21b.500. -1000 . $4-6 oz.120$. -180 . sheep. $2-1 oz$. 15 . -30 . $1-2 dr$. 4 . -8 . $1/2-1 dr$.	1-2 lb. 5001000. 4-6 oz. 120180. sheep. 2-1 oz. 15 30. 1-2 dr. 48. 1/2-1 dr. 0-60 gr. 1.3 - 4. 10-20 gr. 0.6 - 1.3 · 2-10 gr.	1-2 lb. 5001000. 4-6 oz. 120180. sheep. 2-1 oz. 15 30. 1-2 dr. 48. $\frac{1}{2}$ -1 dr. 0-60 gr. 1.3 - 4. 10-20 gr. 0.6 - 1.3 · 2-10 gr. 2-1 oz. 15 30. 1-2 dr. 48. $\frac{1}{2}$ -1 dr.	1-21b.5001000. 4-6 oz.120180. sheep. 2-1 oz. 15 30. 1-2 dr. 48. ½-1 dr. 2-6 og r. 1.3 - 4. 10-20 gr. 0.6 - 1.3 · 2-10 gr. 2-1 oz. 15 30. 1-2 dr. 48. ½-1 dr. ½-2 oz. 15 60. 1-4 dr. 415. ½-2 dr.	1-2 lb. 5001000. 4-6 oz. 120180. sheep. 2-1 oz. 1530. 1-2 dr. 48. ½-1 dr. 0-60 gr. 1.3 - 4. 10-20 gr. 0.6 -1.3 ·2-10 gr. 2-1 oz. 1560. 1-4 dr. 48. ½-1 dr. 2-4 gr. 0.13 - 0.25 ½-1 gr. 0.03 -0.06 ¼-½ gr.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1–2 lb. 500. –1000. 4–6 oz. 120. –180. sheep. 2–1 oz. 15. – 30. 1–2 dr. 4. –8. $\frac{1}{2}$ –1 dr. 60–60 gr. 1.3 – 4. 10–20 gr. 0.6 – 1.3 $\frac{2}{2}$ –1 dr. 2–1 oz. 15. – 30. 1–2 dr. 4. –8. $\frac{1}{2}$ –1 dr. 2–2 oz. 15. – 60. 1–4 dr. 4. –15. $\frac{1}{2}$ –2 dr. 15. –60. 1–4 dr. 4. –15. $\frac{1}{2}$ –2 dr. 15. –60. $\frac{1}{2}$ –2 dr. 2. –8. 15–60 m. 5alicylate	1-2 lb. 5001000. 4- 6 oz. 120180. sheep. 2-1 oz. 15 30. 1-2 dr. 48. $\frac{1}{12}$ - 1 dr. 0-60 gr. 1.3 - 4. 10-20 gr. 0.6 - 1.3 $\frac{1}{12}$ - 1 dr. 2-1 oz. 15 30. 1-2 dr. 48. $\frac{1}{12}$ - 1 dr. 2-2 oz. 15 60. 1-4 dr. 415. $\frac{1}{12}$ - 2 dr. 3- 0.25 $\frac{1}{12}$ - 1 dr. 3- 0.25 $\frac{1}{12}$ - 1 gr. 0.03 - 0.06 $\frac{1}{12}$ - 2 dr. 2- 4 gr. 0.3 - 0.06 $\frac{1}{12}$ - 2 dr. 2- 4 gr. 0.06 $\frac{1}{12}$ - 2 dr. 2- 8. 15-60 m. 1-1; gr. 0.06 - 0.1 $\frac{1}{12}$ - 3 gr. 0.004- 0.013 $\frac{1}{12}$ 0 gr. 1-1; gr. 0.06 - 0.1 $\frac{1}{12}$ - 3 gr. 0.004- 0.013 $\frac{1}{12}$ 0 gr.	1-2 lb. 5001000. 4-6 oz. 120180. sheep. 2-1 oz. 15 30. 1-2 dr. 48. $\frac{1}{2}$ -1 dr. 2-6 ogr. 1.3 - 4. 10-20 gr. 0.6 - 1.3 $\frac{2-10}{2}$ gr. 2-1 oz. 15 30. 1-2 dr. 48. $\frac{1}{2}$ -1 dr. 2-2 oz. 15 60. 1-4 dr. 415. $\frac{1}{2}$ -2 dr. 2-4 gr. 0.13 - 0.25 $\frac{1}{2}$ -1 gr. 0.03 - 0.06 $\frac{1}{2}$ -1 gr. 2-2 oz. 15 60. $\frac{1}{2}$ -2 dr. 28. 15-60 m. 3-3 slicylate 1-1 gr. 0.06 - 0.1 $\frac{1}{15}$ - $\frac{1}{2}$ gr. 0.004-0.013 $\frac{1}{10}$ - $\frac{1}{2}$ 0 gr. 1-2 oz. 30 60. $\frac{2}{2}$ -4 dr. 815. $\frac{1}{10}$ -60 m.	1-2 lb. 5001000. 4- 6 oz. 120180. sheep. $\frac{2}{2}$ -1 oz. 1530. 1-2 dr. 48. $\frac{1}{2}$ -1 dr. $\frac{2}{2}$ -1 oz. 1530. 1-2 dr. 48. $\frac{1}{2}$ -1 dr. $\frac{2}{2}$ -1 oz. 1530. 1-4 dr. 418. $\frac{1}{2}$ -2 oz. 1560. 1-4 dr. 415. $\frac{1}{2}$ -2 dr. $\frac{2}{2}$ -2 oz. 1560. $\frac{1}{2}$ -2 dr. 28. $\frac{1}{2}$ -2 dr. $\frac{1}{2}$ -2 oz. 1560. $\frac{1}{2}$ -2 dr. 28. 15-60 m. Salicylate 1.5 -60. $\frac{1}{2}$ -2 dr. 815. 10-60 m. 1-2 oz. 3060. 2-4 dr. 815. 10-60 m.	1 - 2 lb. 5001000. 4 - 6 oz. 120180. sheep. 2 - 1 oz. 15 30. 1 - 2 dr. 4 - 8. $\frac{1}{2}$ - 1 dr. $\frac{2}{3}$ - 1 oz. 15 30. 1 - 2 dr. 4 - 8. $\frac{1}{2}$ - 1 dr. $\frac{2}{3}$ - 1 oz. 15 30. 1 - 2 dr. 4 - 18. $\frac{1}{2}$ - 1 dr. $\frac{2}{3}$ - 1 oz. 15 60. 1 - 4 dr. 4 - 15. $\frac{1}{2}$ - 2 dr. 2 - 4 gr. 0.13 - 0.25 $\frac{1}{2}$ - 1 gr. 0.03 - 0.06 $\frac{1}{2}$ - 2 dr. $\frac{1}{2}$ - 2 oz. 15 60. $\frac{1}{2}$ - 1 gr. 0.03 - 0.06 $\frac{1}{2}$ - 2 dr. 2 - 8. 15-60 m. Salicylate 1 - 1 gr. 0.00 - 0.1 $\frac{1}{15}$ - $\frac{1}{2}$ gr. 0.004 - 0.013 $\frac{1}{10}$ - $\frac{1}{3}$ gr. 0.004 - 0.013 $\frac{1}{10}$ - $\frac{1}{3}$ gr. 1 - 2 oz. 30 60. 2 - 4 dr. 8 - 15. 10-60 m. 1 - 4 oz. 30 120. 2 - 4 dr. 8 - 15. 10-60 m.	1-2 lb. 5001000. $4-6$ 02.120180. sneep. $\frac{1}{2}-1$ or. 1530. $1-2$ dr. $4-8$. $\frac{1}{2}-1$ dr. 2. $\frac{1}{2}-1$ or. 1530. $1-2$ dr. $4-8$. $\frac{1}{2}-1$ dr. 2. $\frac{1}{2}-1$ or. 1530. $1-2$ dr. $4-8$. $\frac{1}{2}-1$ dr. 2. $\frac{1}{2}-1$ or. 154 gr. 0.03 $\frac{1}{2}-1$ dr. 2. $\frac{1}{2}-2$ or. 1560. $\frac{1}{2}-4$ dr. 2. $\frac{1}{2}-4$ gr. 0.03 $\frac{1}{2}-2$ dr. 28. $\frac{1}{2}-2$ dr. 2. Salicylate $\frac{1}{2}-1$ gr. 0.04 0.013 $\frac{1}{2}-1$ gr. 0.004 0.013 $\frac{1}{2}-1$ gr. 0.006 $\frac{1}{2}-1$ gr. 0.004 0.013 $\frac{1}{2}-1$ gr. 0.006 $\frac{1}{2}-1$ dr. 815. $\frac{1}{2}-1$ gr. 0.06 $\frac{1}{2}-1$ dr. 815. $\frac{1}{2}-1$ gr. 0.06 $\frac{1}{2}-1$ dr. 815. $\frac{1}{2}-1$ dr. 0.06 $\frac{1}{2}-1$ dr. 815. $\frac{1}{2}-1$ dr. 0.06 $\frac{1}{2}-1$ dr. 815. $\frac{1}{2}-1$ dr. 0.06 $\frac{1}{2}-1$ dr. 0.06 $\frac{1}{2}-1$ dr. 815. $\frac{1}{2}-1$ dr. 0.06	1-2 lb. 5001000. 4-6 oz. 120180. sheep. 2-1 oz. 1530. 1-2 dr. 48. $\frac{1}{2}$ -1 dr. 0-60 gr. 1.3 -4. 10-20 gr. 0.6 -1.3 $\frac{1}{2}$ -2 logr. 2-1 oz. 1560. 1-4 dr. 48. $\frac{1}{2}$ -1 dr. $\frac{2}{2}$ -2 dr. 48. $\frac{1}{2}$ -1 dr. $\frac{2}{2}$ -2 dr. 415. $\frac{2}{2}$ -2 dr. 2-4 gr. 0.13 -0.25 $\frac{1}{2}$ -1 gr. 0.03 -0.06 $\frac{1}{2}$ -2 dr. $\frac{2}{2}$ -2 dr. 28. $\frac{1}{2}$ -60 m. Salicylate 1-1 $\frac{1}{2}$ gr. 0.01 $\frac{1}{15}$ - $\frac{1}{2}$ gr. 0.004-0.013 $\frac{1}{10}$ 0- $\frac{1}{2}$ 0 gr. 1-2 oz. 3060. 2-4 dr. 815. 10-60 m. 1-4 oz. 30120. 2-4 dr. 815. 10-60 m. 1-4 oz. 302 dr. 824. $\frac{1}{2}$ -2 dr. 3-2	1-2 lb. 5001000. 4-6 oz. 120180. sheep. 2-1 oz. 1530. 1-2 dr. 48. $\frac{1}{2}$ -1 dr. $\frac{2}{2}$ -1 oz. 1530. 1-2 dgr. 0.6 -1.3 $\frac{2}{2}$ -1 ogr. $\frac{2}{2}$ -2 oz. 1560. $\frac{1}{2}$ -2 dr. 48. $\frac{1}{2}$ -2 dgr. $\frac{2}{2}$ -2 dgr. 0.03 -0.06 $\frac{1}{2}$ -2 dgr. $\frac{2}{2}$ -2 dgr. 0.1560. $\frac{1}{2}$ -2 dr. 28. $\frac{1}{2}$ -2 dgr. $\frac{2}{2}$ -3 dgr. $\frac{2}{2}$ -3 dgr. $\frac{1}{2}$ -3 dgr. 0.004-0.013 $\frac{1}{2}$ -6 0m. $\frac{1}{2}$ -3 dgr. 0.004-0.013 $\frac{1}{2}$ -6 0m. $\frac{1}{2}$ -3 dgr. 0.004-0.013 $\frac{1}{2}$ -6 dgr. $\frac{1}{2}$ -3 oz. 3060. $\frac{2}{2}$ -4 dr. 815. 10-60 m. 1-4 oz. 30120. 2-4 dr. 815. 10-60 m. 2-4 dr. 824. $\frac{1}{2}$ -2 dr. 2-4 dr. 824. $\frac{1}{2}$ -3 33. 5-20 m. 2-4 dr. 823. 33. 5-20 m.	1-2 lb. 5001000. 4-6 oz. 120180. sheep. 2-1 oz. 1530. 1-2 dr. 48. $\frac{1}{2}$ -1 dr. $\frac{1}{2}$ -1 oz. 1530. 1-2 dgr. $\frac{1}{2}$ -1 oz. 1530. 1-2 dgr. $\frac{1}{2}$ -1 oz. 1530. 1-2 dr. $\frac{1}{2}$ -2 dr. $\frac{1}{2}$ -3 oz. 1560. $\frac{1}{2}$ -2 dr. 28. $\frac{1}{2}$ -6 om. $\frac{1}{2}$ -3 dr. 28. $\frac{1}{2}$ -6 om. $\frac{1}{2}$ -3 dr. $\frac{1}{2}$ -3 dr. $\frac{1}{2}$ -3 dr. $\frac{1}{2}$ -3 oz. 6060. 2-4 dr. 815. 10-60 m. 1-4 oz. 30120. 2-4 dr. 815. 10-60 m. 1-3 dr. 815. 10-60 m. 1-3 dr. 815. 15-3 dr. 5-2 dr. 815. 15-3 dr. 2-4 dr. 824. $\frac{1}{2}$ -2 dr. 2-4 dr. 824. $\frac{1}{2}$ -2 dr. 2-4 dr. 825. 5-15 m. 1-3 dr. 412. 15-40 m. 12.6 5-15 m.	1-2 lb. 5001000. 4- 6 oz. 120180. sheep. $\frac{1}{2}$ -1 oz. 1530. 1-2 dr. 48. $\frac{1}{2}$ -1 dr. $\frac{2}{2}$ -1 oz. 1530. 1-2 dr. 48. $\frac{1}{2}$ -1 dr. $\frac{2}{2}$ -1 oz. 1530. 1-4 dr. 418. $\frac{1}{2}$ -2 oz. 1560. $\frac{1}{2}$ -2 dr. 415. $\frac{1}{2}$ -2 dr. $\frac{1}{2}$ -2 oz. 1560. $\frac{1}{2}$ -2 dr. 28. $\frac{1}{2}$ -2 dr. 21 dr. $\frac{1}{2}$ -2 oz. 1560. $\frac{1}{2}$ -2 dr. 28. $\frac{1}{2}$ -6 oz. 1560. $\frac{1}{2}$ -2 dr. 28. $\frac{1}{2}$ -6 oz. 1760. $\frac{1}{2}$ -2 dr. 28. $\frac{1}{2}$ -6 oz. 3060. 2-4 dr. 815. 10-60 m. 1-2 oz. 30120. 2-4 dr. 815. 10-60 m. 2-3 oz. 6090. 2-6 dr. 815. 10-60 m. 2-3 oz. 6090. 2-6 dr. 824. $\frac{1}{2}$ -2 dr. 824. $\frac{1}{2}$ -2 dr. 825. $\frac{1}{2}$ -2 dr. 825. $\frac{1}{2}$ -2 dr. 826. $\frac{1}{2}$ -2 dr. 827. $\frac{1}{2}$ -2 dr. 920. 50. 1. 3 -2. 50. m. 1. 3 -3.3 5-20 m. 1. 3 -2. 50. 50. 10-60 m.	20180. sneep. 48. /2- 1 dr. 0.6 - 1.3 2-10 gr. 415. /2- 2 dr. 0.03 - 0.06 /4-/2 gr. 28. 15-60 m. 0.004- 0.013 1/0-5/0 gr. 815. 10-60 m. 815. 10-60 m. 824. /2- 2 dr. 1.3 - 3.3 5-20 m. 1.3 - 3.3 5-20 m. 1.3 - 3.3 5-20 m. 28. 10-60 m. 0.3 - 1. 1-6 gr.

In general the dose for the cat is 1/2 the dose for the dog. Hypodermics of alkaloids,

	Metric.	- I.3	- 2.	- 4.	9.0 -	.4.	9.0 -	0.0 -	- I.		001 - 0.003	0.0	9.0 -	- 4.	- 2.	- 2.	-I5.	- 2.	- 2.	- 2.	9.0-
DOG	2	9.0	9.0	0.3	0.13	5.	0.3	0.3	0.3		0.001	0.3	0.3	Ι.	0.3	0.3	4.	Ι,	0.3	0.3	0.03
	Apoth.	10-20 gr.	10-30 gr.	5 m- 1 dr.	2-10 m.	1/2- I dr.	5-10 gr.	5-10 gr.	5-15 m.		5 60-20 gr.										1/2- I m.
SHEEP AND SWINE	Metric.	-12.	-12.	-12.	- 4.	∞ !	+ 4.	- 4:	∞° 1		3 - 0.00	- I.3	- I.3	-I2.	∞i !	∞ 1	-30.	- 4.	×	∞ 00 1	4.0 -
AND		∞°	∞°	4	6	4	5	1.3	5.		0.003	0.6	9.0	4	4	4	15.	5	4	4	0,2
SHEEP	Apoth.	2- 3 dr.	2- 3 dr.	I- 3 dr.	1/2- I dr.	I- 2 dr.	30-60 gr.	20-60 gr.	1/2- 2 dr.		20-12 gr.	10-20 gr.	10-20 m.	1- 3 dr.	I- 2 dr.	I- 2 dr.	1/2- I OZ.	1/2- I dr.	I- 2 dr.	I- 2 dr.	3- 6 m.
	ú	.09	. 09	.09	30.	60.					0.03	∞i	∞.	.09	30.	30.	120.	30.	30.	30.	1.3
MO:	Metric.	' I	Í	- 1	1	į	1	1	1		-91	Ī	÷	1	1	1	ŧ	1	ł	1	1
AND C	~	30.	30.	∞ _o	∞		15.		∞°		0.0	4	4					∞°			0.6
HORSE AND COW	Apoth.	[- 2 0Z.	I- 2 0Z.		2-8 dr.	2- 2 OZ.	4-8 dr.	1/2- I OZ.	r- I oz.		1-1/2 gr.	1- 2 dr.	1- 2 dr.	1/2- 2 OZ.	20 I -	,ZO I -2	I- 4 oz.	2- 8 dr.	2-8 dr.	2-8 dr.	10-20 m.
				2 dr	on	以xt.	d.		1 2 d	en)							o.	. ₩			
		Fennel	Fenugreek	Filix Mas. (Male Fern)	Fowler's Soluti	Frangula, Fld.	Ball Nuts, Pow	Samboge	Gaultheria, Oil	(Wintergre	Jelsemine	Gelsemium	Fld. Ext	Tinct.	Gentian	Fld. Ext	Tinct: Co	Beranium, Fld. Ex	Singer	Fld. Ext.	Oleoresit
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- 4.	ñ	0.0005- 0.001	- 4.	;	÷∞;	- 0.13	- 2.	- 2.	- 2.6	- 2.6	- ×	- I.
0.6 - 4.	-	0.000	2.	3	I.	0.03	0.2	9.0	I.3	I.3	5.	0.3
го-60 т.	1- 1 dr		1/2 - 1 dr.	1000	15-45 m.	1/2- 2 m.	3-30 m.	10-30 ш.	20-40 gr.	20-40 gr.	$\frac{1}{2}$ - 2 dr.	5-15 m.
-15·	-60	1 - 0.002	-15.	· .	- 8. -12.	9 .0 –	-15.	- 4.	-30.	-30.	-I5.	- 2.
∞	Y.	0.00	∞ ≺	;	4 d	0.2	4	5.	15.	15.	∞.	9.0
2- 4 dr. 8.	1/2 - 2 0%.	66-30 gr.	2- 4 dr.	+ 1	/2- 2 ar. I- 3 dr.	3-10 m.	4 dr.	1/2- I dr.	I oz.	I oz.	4 dr.	10-30 m. 0.6
09	250.	0.03	60.		30.			30.	90.	90.	.00	15.
ŧ	1 1	13-	1.1		1.1	1		1_	1	L	Į.	ı
30	60.	0.0	30.	, 0	o. 15.	4	30.	∞ (. 60	90.	30.	4
I- 2 oz.	2-80z. 60 250. I-I ½ lb. 500 750.	1-1/2 gr.	I 2 0z. 30.		$\frac{2}{1/2}$ our. o. $\frac{1}{1/2}$ 2 oz. 15.	I- 2 dr.	I- 3 oz.	2-8 dr.	2- 3 oz.	2- 3 oz.	I- 2 0Z.	I- 4 dr. 4.
Tinct.	Glauber's Salts (Horse) (Cow)	Glonoin (Nitroglycerin)		(Liquorice Root)	F. E.	Guaiacol	Ammo	Guarana, Fld. Ext.	Gum Arabic	Iragacanth	Hamamelis, F. E.	Fid. Ext.

In general the dose for the cat is 1/2 the dose for the dog. Hypodermics of alkaloids, usually 1/2 the dose by mouth.

								2												
DOG	Metyic.	0.3 – I. I. – 3.	0.002 - 0.008		6.		1	0.005 - 0.01	0.3 - 4.	- 1	0.3	0.3 - 4.	2.		I. – 5.		0.016 $\frac{1}{6^{10}-3^{0}}$ gr. 0.001 - 0.002 $\frac{1}{15^{0}-15^{0}}$ gr. 0.0004-0.0000			0,001 - 0,002
_	Apoth.	1.3 - 4: 5-15 gr. 612. 15-45 m.	30-18 gr.	% gr.	1/2-2 dr.	3-5 gr.	/ .	- 0.02 12-16 gr.	5-60 gr.		5-00 m.	5-60 m.	$\frac{1}{2}$ - 2 dr.		-15. 15 m 2 dr.	,	150-160 gr.		1 1	I- 2 gr. 0.06 - 0.013 $\frac{1}{20}$ - $\frac{1}{2}$ gr. 0.003 - 0.013 $\frac{1}{60}$ - $\frac{1}{30}$ SI.
D SWINE	Metric.	3 – 4: –I2.	910 800	0.04	15.	3 - 0.6						_15.					001 - 0.002			003 - 0.013
SHEEP AND SWINE	Apoth.	20-60 gr. 1.3 - 4: 1\frac{1}{3}-3 dr. 612. 1	-½ gr. 0.0	gr.	- 4 dr. 4.	,-10 gr. 0.		1/2-1/3 gr. 0.01	I- 2 dr. 4.	,	[- 2 dr. 4.	I- 4 dr. 4.	ı– 4 dr. 4.		I- 4 dr. 4.		5-30 gr. o.		,	0- 3 gr. 0.
	ic.	15. 20 45. 13	0.13	0.4 2/3	120. I	.2.					30.	30.	.09		.00		0.016 gl		,	0.013
HORSE AND COW	Metric.	1.25	0.03 -	0.2	30.	- I.		- 90.0	8 .		· · ·		. 30. –		. I5		- 10.0 ·		,	. 0.00
HORSE	Apoth.	$\frac{1}{2}$ 4 dr. $\frac{1}{2}$ - 4 dr. $\frac{1}{2}$ - 1 d. 02.	1/2- 2 gr.	3- 6 gr.	I- 4 uI. I- 4 oz.	15-30 gr.	<u> </u>	I-2gr. 0.06 - 0.13	dr I oz.		dr I oz	dr I oz	I- 2 0Z	je je	1/2- 2 OZ.		1/6-1/4 gr. 0.01 -	, .		I- 2 gr
		Hematoxylin, Ext. ½-4 dr. 2. – 15. 2 Fld Ext. ½-1, 02. 15. – 45.	Heroin	Homatropin	numulus, F. A. Tinct.	Hydrastin	Hydrastine Hydro	chlorate	Hydrastis 2	Seal	Fld. Ext. 2	Glycerite	Tinct. 1- 2 oz. 30.	Hydrogen, Dioxid	or Peroxide $\frac{1}{2}$ 2 oz. 15. –	Hyoscine Hydro-	bromide	Hyoscyamine Hy-	drobrom, or Sul-	phate

- I.	- 0.13	- I.	° 0		4.	9.0 -	- 0.3	- 0.3	9.0 -		9.0 -	- 0.5	- 0.13	- 2.	- 0.13		9.0 -	- 0.3
0.3							0.016								0.03			
5-15 gr.	1/2- 2 gr.	5-15 m.	I- 2 dr.		ı dr.	2-10 gr.	14-5 m.	2- 5 gr.	2-IO m.		2-10 m.	2-8 gr.	$\frac{1}{2}$ - 2 gr.	15-30 gr.	1/2- 2 m.		5-10 gr.	I- 5 gr.
- 4.	- 0.5	- 4.	-I5·		-I2.	- 1.3	- 2.6	- I.3	- 2.6						- 2.		- I.3	1
5	0.25	5.	∞.		∞ o	9.0	1.3	9.0	1.3						Ι.		0.6	I.3
½− 1 dr.	4	1/2	2-		2- 3 dr.	10-20	20-40	10-20	20-40		20-40 m.	10-20 gr.	eep ½- I dr.	pig 1/2 dr.	15-30 m.		10-20 gr.	20-30
30.	4	30.	90.	,	.09	12.	4	4	15.		15.	4	8.sh		∞°		∞.	∞.
1	1	į	1		1	1	1	1	i		1	1	ì		ł		1	1
15.																		
1/2- I oz.	20-60 gr.	$\frac{1}{2}$ I oz.	I- 3 oz.		I- 2 0Z.	I- 3 dr.	1/2- I dr.	1/2- I dr.	2- 4 dr.		2- 4 dr.	1/2- I dr.	1- 2 dr.		I- 2 dr.		1- 2 dr.	I- 2 dr.
Hyoscyamus (Henbane)	Ext.	Fld. Ext.	Tinct.	Hypophosphites,	Comp. Syr.	. Ichthyol	Ignatia, Fld. Ext.	Iodine	Comp. Sol.	(Lugol's)	Tinct.	Iodoform	Ipecac, Expect.	Emetic	Fld. Ext.	Iron and Ammoni-	um Citrate	Carb. Sacch.

In general the dose for the cat is 1/2 the dose for the dog. Hypodermics of alkaloids, usually 1/2 the dose by mouth.

1/2-2 dr. 28.	5-40 gr. 0.3 - 2.0	2	0.3	0.3	0.3	5.	0.3	0.5	0.13	0.00	0.00	0.06	0.00	4.	15.	0.13	0.2	0.00
-I2.	- 12.	- I2.	ж !	- 2.6	∞° -	- 24.	- 2.	- 4.	- I5.	- I.3	0.0	- I.3	- 0.6	- 60.	-360.	∞ 0	- 4.	- 4
r- 3 dr. 4.				20-40 gr. I.3														15-60 gr. I.
- 60.																		_ I5.]
30.	15.	15.	15.	œ	15.	30.	4	∞°	15.	2	2.	2.	9.0	120.	250.	15.	4	4
I- 2 0Z.	1/2-	1/2-	1/2-	2- 3 dr.	1/2-	I-	I-	2-	1/2-	1/2-	1/2-	1/2-	7-0]	4-	12	12-	I	H
Tinct.	Kousso	Fld. Ext.	Krameria	Ext.	Fld. Ext.	Tinct.	Lactopeptine	Lactucarium, F. E.	Landanum	Lead Acetate	Lemon Oil	Lime Chlorinated	Sulphurated	Water	Linseed Oil	Lithium Bromide	Carbonate	Citrate

In general the dose for the cat is 1/2 the dose for the dog. Hypodermics of alkaloids,

usually 1/2 the dose by mouth.

DOG	Metric.	0.03 - 1.3 $0.03 - 1.3$ $0.02 - 2.$	0.03 - 0.06 0.13 - 0.6 0.3 - 0.6	0.3 - 4. 2 8. 415.	1. – 4. 1. – 4. 0.13 – 0.3 0.06 – 0.6	3060. 2 4. 2 8. 0.5 - 2.
A	Apoth.	1/2-20 gr. 1/2-20 m. 3-30 m.	3 ½- 1 gr. 2-10 m. 5-10 gr.	- 8. 5-60 gr. - 15. ½- 2 dr. - 30. 1- 4 dr. - 180. Sheep.	15-60 m. 15-60 m. 2- 5 gr. 1-10 gr.	1- 2 oz. 30-60 m. 1/2- 2 dr. 8-30 m.
SHEEP AND SWINE	Metric.	2 8 4 12.	0.06 - 0.1 1.3 - 2.6 0.6 - 1.3	4 8. 4 15. 15 30. 120 180. S	4 8 8. 0.3 - 0.6 0.3 - 1.3	4 8 15 4 4.
SHEEP A	Apoth.		I- 2 gr. 20-40 m. IO-20 gr.	1- 2 dr. 1- 4 dr. ½- 1 oz. 4- 6 oz. 1:	1- 2 dr. 1- 2 dr. 5-10 gr. 5-20 gr.	1- 2 dr. 2- 4 dr. 15-60 m.
WC	Metric.	1.4.1		8. - 60. - 120. -1000.	1 1 1 1 4 4 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.1.1
AND CC	M	4 4 6.	8.3	15. 60. 500.	12.	15. 30.
HORSE AND COW	Apoth.	1-8 dr. 1-8 dr. 1-2 oz.	5-15 gr. 2- 4 dr. 1- 3 dr.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3-6 dr. 3-6 dr. 3-6 dr. 1/2-2 dr.	1/2 - 1 0 z. 1 - 2 0z. t. 2 - 8 dr.
		Lobelia Fld. Ext. Tinct.	Lobelin Lugol's Solution Lupulin	_ b	Male Fern. Fld. Ext. 3-6 dr. 12 Oleoresin 3-6 dr. 12 Manganese Dioxide 3-2 dr. 2 Massa Hydrargyri 3-2 dr. 2	(Blue Mass) Manna Matico, Fld. Ext. 1/2- 1 oz. 15. Tinct. 1- 2 oz. 30. Matricaria, Fld. Ext. 2- 8 dr. 8.

											3)							
			0.06 - 0.2			0.003- 0.013				0.06 - 0.3	0.002 - 0.008	0.06 - 0.6	0.3 - I.	0.1 - 0.25	0.008 - 0.03	0.06 - 0.3	0.002 - 0.004	0.6 - I.	15.
	I- 5 m.	I-30 m.	I- 3 gr.		I-IO gr.			30-18 gr.		I- 5 gr.	30-18 gr.	I-IO gr.	5-15 m.	1½- 4 gr.	1/8-1/2 gr.	I- 5 gr.	$\frac{1}{30} - \frac{1}{15}$ gr.	10-15 gr.	1/2 OZ,
	0.3 - 0.6	2 4.	0.3 - 0.6		.6 - I.	½- 2 gr. 0.03 - 0.13		0.06 - 0.13		0.13 - 0.6	0.06 - 0.13	0.3 - 1.3	I 4.	0.2 - 0.5	0.013- 0.13	0.13 - 0.6	0.003-0.006	2 8.	.530.
	5-10 m.	1/2- I dr.	5-10 gr.		10-15 gr.	1/2- 2 gr.		I- 2 gr.		2-10 gr.	I- 2 gr.	5-20 gr.	15-60 m.	3-8 gr.	ST. 2 ST.	2-10 gr.	$\frac{1}{2}$ 0 $ \frac{1}{1}$ 0 \mathbf{gr} .	1/2- 2 dr.	1/2- I OZ.
	2.	15.	5.		I.	0.5		0.5		4	0.5	12.	30.	4	9.0	∞.	90.0	30.)
nint)	I. –	ر من	I		- 9.0	0.13 - 0.5		0.3 -		2. –	0.3	4. –	. 00	I	0.2	2	0.013-	I5	
e, (Peppern	15-30 m.	2- 4 dr.	15-30 gr.		10-15 gr.	e 2-8 gr.	4)	5-8 gr.	ate)) ½- I dr.	5-8 gr.	1) I- 3 dr.	2-8 dr.	15-60 gr.	3-10 gr.	1/2- 2 dr.	te 1- 1 gr.	$\frac{1}{2}$ I oz.	
Menthae Piperitae, (Peppermint)	Oil	Spt.	Menthol	Merc. with Chalk	(Foals & Calves)	Mercury, Biniodide 2-8 gr.	Mercury, Chloride	Corros.	(Corrosive sublim	Mild (Calomel	Iodide Red	Mass (Blue Pill	Methyl Salicylate	Methylene Blue	Morphine & Salts	Morrhuol	Muscarine Sulphat	Mustard	Emetic

In general the dose for the cat is ½ the dose for the dog. Hypodermics of alkaloids, usually 1/2 the dose by mouth.

										3	,0							•				
DOG	Metric.	0.6 - I.3	0.6 - 2.	0.06 - I.3	9.0 - 90.0	0.0006- 0.00I	100°0 -9000°0	0.06 - 0.13	0.6 - 4.		0.3	0.06	0.00	0.06	0.3	60 120.	0.03	0.0	0.2	4.		0.2 - 2.
	Apoth.	10-20 gr.	10-30 m.	I-20 gr.	I-IO gr.	100-60 Br.	100-60 Br.	I-2 m.	10-60 m.		5-60 m.	I- 2 gr.	1/8-1/4 gr.	I- 2 m.	5-15 m.	2- 4 oz.	$\frac{1}{2}$ 3 gr.	1/6-1/2 gr.	3-30 m.	I- 4 dr.		3-30 m.
SHEEP AND SWINE	Metric,	2 4.	4 8.	0.6 - 4.	0.3 - 2.	0.00I- 0.002	0.00I- 0.002	0.3 - 0.6	8I5.		2 8.	0.6 - I.3	0.06 - 0.2	0.6 - I.3	1.3 - 2.6	20240.	0.3 - I.3	0.13 - 0.6	824.	1530.		824.
SHEEP AT	Apoth.	1/2- I dr.	I- 2 dr.	10-60 gr.	5-30 gr.	60-30 gr.	30-30 Sr.	5-ro m.	2- 4 dr.		1/2-2 dr. 2.	10-20 gr.	I- 3 gr.	IO-20 m.	20-40 m.	4-8 oz. IS	5-20 gr.	2-IO gr.	2- 6 dr.	4-8 dr.		2- 6 dr.
HORSE AND COW	Metric.	œ' .	8. – 15.	8. – I5.	8 12.	0.00I- 0.006	0.013- 0.03	2 4.	30 120.		8 24.	2 8.	0.13 - I.	2. – 8.	4 24.	.000I00	4 8.	2 4.	30 60.	50 120.		30. – 60.
HORSE A	Apoth.	2 dr.	2- 4 dr.	2- 4 dr.	2- 3 dr.	60-10 gr.	1-1/2 gr.	1/2- I dr.	. I- 40Z.		2- 6 dr.	1/2- 2 dr.	2-15 gr.	½- 2 dr.	I- 6 dr.	I- 2 pt. 5	I- 2 dr.	$\frac{1}{2}$ I dr.	I- 20Z.	1. 2- 4 oz.		I- 20Z.
	•	Myrrh, Powd.						_	-		Nuclein	Nux Vomica	Ext.	Fld. Ext.	Tinct.	Olive Oil	Opium	Hxt.	Tinct.	Tinct. Camph	(Paregoric)	Wine

.55		÷ +	9.0	÷	÷	9.6		0.4	1.3	0.	9.0	0.3	5.	9.0	1.3	00	9.0	- 2.	0.3
-	1	1	1	1	1	1		1	i	9-	1	1	1	1	1	I	I	1	1
2	3	0.3	13			13		7	9		3	90.		.13	.25		.3	I.	90.
gr.	gr.	5-15 gr.	gr.	m.	E.	m.		gr.	gr.	02.	gr.	Ħ.	Ħ.	gr.	gr.	dr.	gr.	15-30 gr.	H.
6 -	-15	-15	01-	09-	09-	-10		9 -	-20	- 2	IO	- 5	-30	01-	-20	- 2	01-9	5-3c	- 3
65	is	3	7	30	30	6		3	IO	1/2	S	I	15	a	4	_	4,	I	
		3						9				9		3	. 9				
. I.	2.	- I.	- I.	တ်	ر م	- 4.		9.0 -	2.		- 4.	0 -	4.	- I.	- 2.	-15.	- 2.	1 4.	- 2.
1	1					1			1										
		9.0						0.3	H									5.	
Zr.	Zr.	Sr.	ST.	dr.	dr.	1/2- I dr.		gr.	gr.)	Sr.	Ħ.	dr.	gr.	g.	dr.	gr.	1/2- I dr.	m.
1.5 g	308	-20	-15	7	5	1 -		OI-	-30)	9-9	-IO	H -	-20	40	4	-30	H	-30
3	IO	10-	5	-	H	1/2-		ķ	15		20-	5	1/2/	5	10	2	IO	1/2	IO
12.	20.	4	4	60.	30.	30.		2°	4		∞	2.	15.	4	· ∞	40.	12.	∞ i	12.
1	1	1	1	ı	1	1		1	1		1	1	1	1	1	- 1	ı	i	1
2	00	6	2	15	15	000		I	2		4	-	00	I	64	30	0	4	-00
T.	lr.	dr.	dr.	0%.	0%	8 dr.	ľ	er.	dr.		lr.	Ξ.	dr.	dr.	dr.	0%.	dr.	dr.	dr.
7	יו כ	H	- I	- 2	I.	00		-30	H		5	-30	4	- 1	7	00	4	10 0	-3
1/2	1 0	1/2-	1/2	170	1/2	1 4	tis)	1	1/2	eď	Ĭ-	15-	à	1/4	12	-	2	Ĥ	2
					ĸt.	ion	ena	ph.	4	Se		_	ئد		-);i
					五	lut	Arse	Sul	te	kir	X	Ö	Spi	1	ate) p
		11		vde	Fld	So	lii 1	1116	nna	mi	Blac	int			har	mi	1.5	in.	Phosphorated Oil 2-3 dr.
4		Pati		eh	2	511,5	Sod	ier	Ta	P	L'A	rm		4	acc	latin	Popular	idz	oho
	50	ner	Dair	ralc	reir	arsc	iq.	llet	1	00	ppe	PPF	111	nei	S.	tro	240	lor	1081
0	000	200	Pa	7	Pa	Pe	(I	Pe	4	Pe	Pe	Pe	4	Pe	4	PP	Ph	bh hd	PE

In general the dose for the cat is 1/2 the dose for the dog. Hypodermics of alkaloids, usually ½ the dose by mouth.

				30				
Metric,	0.0006-0.003 0.5 - 1.3	0.016 - 0.06	0.0006- 0.002	0.3			0.06 - 0.13	2 8. 0.6 - 4. 0.3 - 1.3
Apoth.	$\frac{1}{100}$ $\frac{1}{20}$ gr. $7-20$ m.	14-1gr.	$\frac{1}{100} - \frac{1}{30} \text{ gr.}$	5-30 m.	120 50 ST.		15 gr. 1- 2 gr.	$\frac{1}{2}$ 2 dr. 10–60 m. 5–20 m.
Metric	0.06 - 0.13 $\frac{1}{10-20}$ gr. 0.0006-0.003 $\frac{1}{100}$ gr. 4 8. $10-30$ m. 0.6 - 2. $7-20$ m.	0.13 0.25	0.03 - 0.25	I.3 - 3.	$\frac{1}{6.6 - 3.0}$ gr. 0.001-0.002 $\frac{1}{10}$	2 4.	I. – 2. 0.3 – I.3	4I2. 48. 24.
Apoth.	$\frac{1}{100} \frac{1}{0} - \frac{1}{20} \mathbf{gr}.$	2- 4 gr.	ine) $\frac{2-4 \text{ m}}{50-\frac{1}{5} \text{ gr.}}$	20-45 m.	2 - 1 di.	$\frac{1}{1/2}$ - 1 dr. $\frac{1}{1/2}$ - 1 dr.	15-30 gr. 5-20 gr.	1-3 dr. 1-2 dr. 1/2-1 dr.
	0.13 8.	6 6	Eser O. I	∞	0.02 0.3	15. 15.	တ် တ	60. 30.
Metric		1	Sulphate (40	0.01	 	1 1 8 8 8	30. – 15. –
Apoth.	I- 2 gr. I- 2 dr.	15-30 gr.	15-30 m. licylate or $I-I \stackrel{1}{\rightarrow} gr$.	I-2 dr.	$\frac{1}{\sqrt{6-\frac{1}{2}}}$ gr. 0.01 - 0.02 & Salts2- 5 gr. 0.13 - 0.3	$2-4\mathrm{dr}.$ $2-4\mathrm{dr}.$	I-2dr. I-2dr.	$ \begin{array}{c} 1 - 2 0Z. \\ 1/2 - 1 0Z. \\ 1/2 - 1 0Z. \end{array} $
	Phosphorus Spt.	Physostigma (Calabar Bean)	Fig. Ext. 15-30 m. 1 2. 2-4 m. 0.13 - 0.25 $\#$ 1 m. 0.010 - 0.00 Physostigmine Salicylate or Sulphate (Eserine) (Hypodermic) $\frac{1}{1-1}$ gr. 0.006 - 0.1 $\frac{1}{3}$ gr. 0.0013-0.013 $\frac{1}{10}$ 0- $\frac{1}{3}$ gr. 0.0006 0.002	Phytolacca, F. E. (Poke-root)	Ficht, Fid. Ext. Picrotoxin Philocarpine & Sal	Pilocarpūs (Jaborandi) Fld Ext.	Piperazin Podophyllin (May Apple)	Pomengranate Polygonum, F. E., Potassa, Solution

DOG

SHEEP AND SWINE

HORSE AND COW.

0.3 - 1.3											r5. –30.	•	2 4.	0.13 - 0.3	I.3 - 4.	0.03 - 0.2	I. – 4.	I 4.	0.008 - 0.02
5-20 gr.											1/2- I OZ. I				20-60 m.				
2 4.	2 4.	-15·	815.	2 4.	2 4.	2 4.	0.6 - 2.	2 4.	0.2 - 0.4		60120.	(4 8.	0.3 - 0.6	2 6.	0.3 - 0.6	815.	412.	0.016- 0.03
1/2- I dr.	1/2- I dr.	1/2 OZ.	2- 4 dr.	1/2- I dr.	1/2- I dr	1/2- I dr.	10-30 gr.	1/2- I dr.	3-6 gr.		2-40%.	,	1- 2 dr.	5-10 m.	$\frac{1}{2}-1\frac{1}{2}$ dr.	5-10 gr.	2- 4 dr.	I- 3 dr.	$\frac{1}{4} - \frac{1}{2}$ gr.
- 30.	- 30.	- 30.	60.	- 30.	- 30.	- 30.	- 30.	- 30.	- 4.		-1000.		1	I	- 30.	I	1	1	5 -
02.	- I oz. 15.	0%.	.07.	07.	COZ.	. 02.	I OZ.	I 0Z.			I- 2 lb. 500.	Ext.	202.	2 dr.	4-8 dr. 15.	2 dr.	2 0%.	2 OZ.	ger.
Potassium Acetate 1/2	Bicarbonate 1/2	Bitartrate 1/2	Bromide	Carbonate 1/2	Chlorate	Citrate	Iodide	. Nitrate	Permangan.	and Sodium									

In general the dose for the cat is 1/2 the dose for the dog. Hypodermics of alkaloids, usually ½ the dose by mouth.

	Metric.	- 4:	- 2.	- 2.	91.0 -	. I.	0 10	0.13	9.0 -	- 0.3		- 4.	-60.	9.0 -	9.0 -	- 4.	4.0	×.	- 4.	- 4.	- 2.	- 0.3
. pog	Ä	0.3	9.0	9.0	O, I	0.5	900	0.00	0.3	O 13		5.	30.	0.3	0.3	5.	9.0	4	9.0	τ.	Ι.	90.0
	Apoth.	5-60 m.	10-30 gr.	10-30 gr.	$1\frac{1}{2}-2\frac{1}{2}$ gr.	7-15 gr.	200	1- Z SI.	5-IO gr	2- 5 gr.		1/2- I dr.	I - 2 0Z.	5-10 gr.	5-ro m.	30-60 m.	I- 6 m.	I- 2 dr.	10-60 m.	15-60 m.	15-30 m.	I- 5 m.
SWINE	Metric.					- 2.6	90	0.0	- 2.6	- 2.		° °				∞ 1	9.0 -	-120.	×	× 1	- 4.	3 - 0.6
ND		4	4.	4	0.4	I.3	(0.3	1.3	0.6		4		4	4	4	0	00.	4	4	6	0.
SHEEP AND SWINE	Apoth.	I- 2 dr.	I- 2 dr.	I- 2 dr.	6-15 gr.	20-40 gr.	3	5-10 St.	20-40 gr.	10-30 gr.		I- 2 dr.		I dr.	I dr.	I- 2 dr.	5-10 m.	2- 4 oz.	I- 2 dr.	I- 2 dr.	1/2 - I dr.	2-IO m.
		60.	30.	30.	4	20.	,	4	15.	∞.		.09		.09	.09	30.	о <u>о</u>		.09	.09	30.	4
W	Metric					ŧ						1										
AND CO	Mei	15.	15.	15.	1.3	×.	,	۲.	∞.	4		30.		30.	30.	15.	2.	500.	30.	30.	15.	2.
HORSE AND COW	Apoth.	1/2- 2 OZ.	$\frac{1}{2}$ I oz.	1/2- I OZ.	20-60 gr.	2- 5 dr.	2000	15-00 gr.	2- 4 dr.	I- 2 dr.		I-202.		I- 2 oz.	I- 2 0Z.	$\frac{1}{2}$ I oz.	1/2- 2 dr.	I pt.	I- 2 0Z.	I- 2 0Z.	1/2- I OZ.	1/2- I dr.
		Quebracho, F. E.	Quercus Alba	Fld. Ext.	Quinidine (Tonic)	(Antipyretic)	Quinine & Saits	(lonic)	(Antipyretic)	Resorcin	Rhamnus Cathar-	ticus, Fld. Ext.	Syrup	Rhubarb	Fld. Ext.	Rhus Glab., F. E.	Tox, Fld. Ext.	Ricini, Ol	Rubus. Fld. Ext.	Rumex, Fld. Ext.	Ruta, Fld. Ext.	Oil

7-15 m. 0.5 - 1.																						
0. -60 . $\frac{7}{2} - 1$ dr. 2. -4 . $5 - 15$ m. 0.3 8. -15 . $7 - 15$ m. 0.5 -1 . $1 - 5$ m. 0.06 8. -30 . $\frac{7}{2} - 2$ dr. 2. -8 . $5 - 30$ gr. 0.015 8. -30 . $\frac{7}{2} - 2$ dr. 2. -8 . $5 - 30$ gr. 0.016 4. -15 . $10 - 30$ gr. 0.6 -2 . $1 - 5$ gr. 0.016 5. -60 . $2 - 3$ dr. 8 -12 . $1 - 2$ dr. 4 . -3 6. -24 . $10 - 45$ m. 0.6 -2 . $5 - 15$ m. 0.3 7. -60 . $2 - 3$ dr. 4 . -8 . $2 - 20$ gr. 0.13 8. -24 . $15 - 60$ gr. 1. -4 . $5 - 30$ gr. 0.13 8. -24 . $15 - 60$ gr. 1. -4 . $5 - 30$ gr. 0.13 9. -60 . $1 - 2$ dr. 4 . -8 . $\frac{7}{2} - 1$ dr. 2. $\frac{7}{2} - 1$ dr. 3. 3. 1.3. 3.	- I.0								- 8	- 2.	- 1.3	- 2.	- 0.013	- 4.	- 4.	· ∞ 	- 0.3		· 00	- 4.	- 0.3)
8 15. 7-15 m. 0.5 - 1. 8 15. 7-15 m. 0.5 - 1. 8 30. ½-3 gr. 0.03 - 0.2 8 30. ½-2 dr. 2 8. 1 15. 10-30 gr. 0.6 - 2. 5 60. 2-3 dr. 8 -12. 5 60. 2-3 dr. 8 -12. 5 60. 2-3 dr. 8 -12. 6 30. 1-2 dr. 4 8. 8 24. 15-60 gr. 1 4. 9. 1 - 0.25 ¼-1 gr. 0.016-0.06 9 60. 1-2 dr. 4 8. 9 15-10 m. 0.3 - 0.6 9 24. 1-3 dr. 4 8. 9 15-2 dr. 4 8.	0.3								4.	0.3	0.13	0.3	0.006	2.	2.	2.	0.06		2.	2.	0.13	
8 15. 7-15 m. 8 15. 7-15 m. 8 15. 7-15 m. 1 15. 10-30 gr. 4 24. 10-30 gr. 5 60. 2-3 dr. 6 24. 15-60 gr. 9. 1 - 0.25	5-15 m.		I- 5 m.	14-2 gr.	5-30 gr.	1- 5 gr.	5-15 m.)	I- 2 dr.	5-30 m.	2-20 gr.	5-30 gr.	10- 1 CT.	1/2 - I dr.	1/2- 1 dr.	1/2- 2 dr.	I- 5 m.		1/2- 2 dr.	1/2- I dr.	2- 5 gr.)
8 15. 7-15 m. 8 15. 7-15 m. 8 15. 7-15 m. 1 15. 10-30 gr. 4 24. 10-30 gr. 5 60. 2-3 dr. 6 24. 15-60 gr. 9. 1 - 0.25	- 4.								-12.	- 3.	ဘ ၂	- 4.	90.0 -91	× .	200	∞ 	9.0 -		-12.	- 8	- I.3)
8. 8. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.			0.5	0.0	2	9.0	0.6		00	9.0	4	I.	0.0	4	4	4	0.3)	4	4	0.3)
0 % .6% 4 4 6	1/2- I dr.		7-15 m.	1/2- 3 gr.	1/2- 2 dr.	10-30 gr.	10-30 m.)	2- 3 dr.	10-45 m.	1-2 dr.	15-60 gr.	14- 1 gr.	1- 2 dr.	1- 2 dr.	1- 2 dr.	5-10 m.	, ·	I- 3 dr.	1- 2 dr.	5-20 gr.)
0 % .6% 4 4 6	00.		15.	9.0	30.	15.	24.		.09	12.	30.	24.	0.25	.09	.09	.09	∞.		24.	15.	4	
(Savin) 2- 4 dr. 8. (Savin) 2- 4 dr. 8. Salicin 2- 8 dr. 8. Salol 4- 4 dr. 1. Sanguinaria, F. F. 1- 6 dr. 1. (Blood-root) 4- 4 dr. 1. Santonin 4- 10- 3 dr. 4. Santonin 1- 3 dr. 4. Sapo (Soap) 2- 6 dr. 8. Saponin 1- 4 gr. 0- 15 Sarsaparilla, F. E. 1- 2 oz. 15 F. E. Comp. 1- 2 oz. 30. Sassafrass, F. E. 1- 2 oz. 30. Sassafrass, F. E. 1- 2 oz. 30. Savin (see Sabina) 2- 6 dr. 8. Savin (see Sabina) 2- 6 dr. 8. Scalla 2- 4 dr. 8.									1	1	1	1	1	1	1	1	-1		1	Ī	1	
(Savin) 2- 4 dr. (Savin) 2- 4 dr. Sacharin 2- 8 dr. Salicin 2- 8 dr. Salol 2- 4 dr. Sanguinaria, F. F. 1- 6 dr. (Blood-root) Santonin 1- 3 dr. Sapo (Soap) 1- 2 oz. Sapo (Soap) 1- 2 oz. F. E. Comp. 1- 2 oz. F. E. Comp. 1- 2 oz. Sassafrass, F. E. 1- 2 oz. Ozi. Savin (see Sabina) 2- 6 dr. Scalla 1- 2 oz. Scilla 1- 1- 2 oz. Ozi. Sassafrass, F. E. 1- 2 oz. Ozi. Savin (see Sabina) 2- 6 dr. Savin (see Sabina) 2- 6 dr. Scilla 1- 1- 2 oz. Ozi. Scilla 1- 1- 2 oz. Ozi. Scilla 1- 1- 2 oz. Ozi. Scilla 1- 1- 2 ozi.	30.		00	0.3	∞.	Ι.	4.		15.	4	15.	∞	O. I	30.	30.	30.	2		о <u>о</u>	œ	5.	
Sacharin (Savin) Oil Saccharin Saloi Saloi Sanolinaria, F. E. (Blood-root) Santonin Sapo (Soap) Saponin Sasparilla, F. E. F. E. Comp. Sassafrass, F. E. Oil Savin (see Sabina) Scammony Resin	I- 2 0Z.		2- 4 dr.	5-Iogr.	2-8 dr.	14-4 dr.	1-6 dr.		1/2- 2 OZ.	1- 3 dr.	1/2- 1 OZ.	2- 6 dr.	13- 4 gr.	I- 2 OZ.	1-202.	I- 20Z.	1/2- 2 dr.		2- 6 dr.	2- 4 dr.	1/2- 1 dr.	
	Sabina, Fld. Ext.	(Savin)	Oil	Saccharin	Salicin	Salol	Sanguinaria, F. E.	(Blood-root)	Santal., Fld. Ext.	Oil	Santonin	Sapo (Soap)	Saponin	Sarsaparilla, F. E.	F. E. Comp.	Sassafrass, F. E.	Oil	Savin (see Sabina)	Scammony	Resin	Scilla	

In general the dose for the cat is 1/2 the dose for the dog. Hypodermics of alkaloids, usually 1/2 the dose by mouth.

D0G.	Metric.	$\frac{1}{2}$ 1 gr. 0.03 - 0.06 $\frac{1}{2}$ 1 dr. 2 4.	0.001 - 0.002 2 4.	0.3 - I. 0.016 - 0.06 415.	415. o.6 - 2.	2. – 8. 0.008 – 0.03	0.3 - 1.3 0.6 - 2.	0.001 - 0.005 0.2 - 0.6 0.5 - 2.
Д	Apoth.	$\frac{1}{2}$ - 1 gr. $\frac{1}{2}$ - 1 dr.	$\frac{1}{60} - \frac{1}{30}$ gr. $\frac{1}{1/2} - 2$ dr.	$\frac{5-15}{4}$ m. $\frac{1}{4}$ – 1 gr. 1 – 4 dr.	1- 4 dr. 10-30 m.	$\frac{1}{2} - 2 dr.$	5-20 m. IO-30 gr.	3-10 gr. 5-30 gr.
SHEEP AND SWINE	Apoth. Metric.	0.06 - 0.13	0.003- 0.006 412.	I. 1 - 2. 0.03 - 0.13	3060.	0.06 - 0.13	2. – 4.	0.03 - 0.06 0.06 - 4. 2 4.
SHEEP	Apoth.	I- 2 gr.	$\frac{1}{20-10} \frac{1}{9} gr.$ I-3 dr.	15-30 m. $1/2-2 gr.$ $1-2.02$	$\frac{1-2 \text{ oz.}}{1/2-1 \text{ dr.}}$	I- 2 gr.	7/2 - 1/2 H. 7/2 - 1 dr. 1 dr.	1/2 – 1 gr. 10-60 gr. 1/2 – 1 dr.
HORSE AND COW	Metric.	0.3 - 1. 15 30.	0.016- 0.06	4 15. 0.3 - 1.3	120. – 150. 15. – 30.	0.3 - 0.6	0.13 - 0.3 15 30. 15 30.	0.2 - 0.4 2 30. 15 120.
HORSE	Apoth.	5^{-15} gr. $\frac{5^{-15}}{2^{-1}}$ oz.	$\frac{1}{4}$ – 1 gr. $\frac{1}{2}$ – 1 oz.	1- 4 dr. 5-20 gr.	4-5 oz. 1/2- I oz.	5-10 gr.	$\frac{2-5 \text{ fm}}{\frac{1}{2}-1 \text{ oz}}$	$\frac{3}{3^{-}} 6 \text{ gr.}$ $\frac{1}{2^{-}} 8 \text{ dr.}$ $\frac{1}{2^{-}} 4 \text{ oz.}$
		Scoparine 5-15 gr. 0.3 - 1. 1-2 gr. 0.06 - 0.13 1/2-1 gr. 0. Scoparius, F. E. 1/2-1 oz. 15 30. 1-2 gr. 4 8. 1/2-1 dr. 2.	Scopolamine Hydrobrom (Hypo) Scutellaria, F. E.	Senega, Fld. Ext. Senegin	Serpentaria, F. E.	Tinct. Silver Nitrate	Sinapis, Oil, Vol. Soda, Solution Sodium Acetate	Arrenate 3-6 gr. 0.2 - 0.4 Benzoate 1/2-8 dr. 2 30. Bicarbonate 1/2-4 oz. 15 120.

- 2.	1.3	- I.3	- 2.	- 2.	9.0 -	- 4.	- 0.2	-15.	- 2.	9.0 -		-15.		- 2.		- 2.
0.6	03	0.3	9.0	0.3	0.13	5.	0.03	4	0.3	0.13		4		0.3		9.0
10-30 gr. 5-60 gr.	5-20 gr.	5-20 gr.	10-30 gr.	5-30 gr.	2-10 gr.	1/2- 2 dr.	$\frac{1}{2}$ 3 gr.	1- 4 dr.	5-30 gr.	2-10 gr.		1- 4 dr.		5-30 gr.		10-30 gr.
			- 4.									-60.		- 4.		. 4.
9.6					Ι.							15.		5		I.
10-60 gr. 2- 4 dr.			0	1/2- I dr.	15-30 gr.	I- 2 dr.	I- 5 gr.	3-8 dr.	1/2- 2 dr.	5-20 gr.		1/2- 202.		1/2- I'dr.		15-60 gr.
- 30.	- 24.	- 60.	- 500. (°	- 60.	- 15.	- 60.	- 2.	- 300.	- 30.	- 4.		- 750.	- 250.	- 60.		- 30.
8.							_									4
$\frac{1}{4}$ - 1 02.	2- 6 dr.	1/2 - 2 OZ.	$\frac{1}{12}$ 1 10. $\frac{1}{12}$ 1 0%.	1/2- 2 OZ.	2- 4 dr.	$\frac{1}{2}$ - 2 oz.	10-30 gr.	1/2-10 OZ.	2-8 dr.	1/2- 2 dr.	lauber's Sa	1-1 1/2 1b.	2-80Z.	$\frac{1}{2}$ I OZ.		2-8 dr.
Borate Bromide	Carbonate	Chloride	Furg. Hypophos Hyposul-	phite	Iodide	Nitrate	Nitrite	Phosphate	Salicylate	Santoninate	Sulphate (G	(Cow)	(Horse)	Sulphite	Sulphocarbo	late

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	HORSE A	HORSE AND COW	SHEEP AND	IND SWINE		D0G
	Apoth.	Metric.	Apoth.	Metric.	Apoth,	. Metric.
Sparteine Sulphate	5-30 gr.	0.3 - 2.	$\frac{1}{2}$ 4 gr.	0.03 - 0.25	$\frac{1}{10} - 1\frac{1}{2}$ gr.	0.006 - 0.1
	2-8 dr.	4 30.	1/2- 2 dr.	2 4.		I 4.
	1- 2 dr.	4 8.	5-20 gr.	0.3 - 1.3		0.06 - 3.
	I- 2 dr.	4 8.	5-20 m.	0.3 - I.3		0.06 - 0.3
	1/2 OZ.	15.	1- 2 dr.	4 8.		2 4.
	6-12 dr.	24 48.	$1\frac{1}{2} - 3 dr$.	612.		0.3 - 2.
	2-8 dr.	4 30.	1/2- 2 dr.	2 8.		0.6 - 4.
	1/2-11/2 OZ.	15 45.	I- 2 dr.	4 8.		24.
	5-10 gr.	0.3 - 0.6	14- 1 gr.	0.015-0.06		0.01 - 0.03
	20-60 m.	I.3 - 4.	5-10 m.	0.3 - 0.6		0.06 - 0.3
	I- 2 dr.	4 8.	10-30 m.	0.6 - 2.		.o.3 - I.3
	I- 2 0Z.	30. – 60.	2- 4 dr.	815.		0.6 - 4.
	½- 1 oz.	15 30.	1- 2 dr.	4 8.		0.3 - 4.
	$\frac{1}{5} - \frac{1}{2}$ gr.	0.013- 0.03	30-15 gr.	0.002- 0.004		0.0006- 0.001
	1- 4 dr.	4 15.	5-20 m.	0.3 - 1.3	2-10 m.	0.13 - 0.6
	1/2- 2 gr.	0.03 - 0.13	30- 1 gr.	0.002- 0.013	120-3c gr.	
	1- 6 dr.	4 24.	10-45 gr.	0.6 - 3.	5-30 gr.	
	2- 4 oz.	60120.	I- 2 OZ.	30. –60.	1/2- 4 dr.	
	2- 6 dr.	8 24.	15-60 m.	I 4.	5-30 m.	
	4-8 dr.	15 30.	1/2- 2 dr.	2 8.	10-60 m.	

											4	5								
	- 2.	- 0.13	- 4.	4.0 -	- 0.2	×	- 2.	×.	- I.	- 2.	- I.3	- 0.5	- 0.5	- I.	- 0.2	9.0 -		- 0.25	- 2.	-I5.
	9.0	0.03	0.0	0.13	90.0	4	0.3	4.	0.3	9.0	0.3	0.5	0.25	90.0	0.03	0.3	5.	0.03	9.0	4
	10-30 m.	1/2- 2 gr.	10-60 m.	2- 6 m.	I - 3 m.	i- 2 dr.	5-30 gr.	I- 2 dr.	5-15 m.	10-30 m.	5-20 gr.	3-8 gr.	4- 7 gr.	I-15 gr.	1/2-3 m.	5-10 gr.	30 m.	1/2- 4 gr.	10-30 gr.	I- 4 dr.
	2 4.	0.062	815.	0.3 - 1.	0.13 - 0.4	815.	1.3 - 2.6	815.	2 4.	4I5.	0.6 - 2.6	I 2.	0.5 - I.	0.3 - 2.	0.3 - 0.6	0.6 - I.3	2 4.	0.06 - 0.5	I 3.	824.
	1/2- I dr.																			
	- 15·	. 2	-120.	Infravenous	- 4.	- 60.	- 15.	- 60.	- 24.	- 60.	000	- I2.	- 4.	000	2.	. 8	- 30.	- 6.	- 15.	- 60.
	4	o.	30.	10.	m. T.	30.	4	30.	œ	30.	2	00	.01	7	Η	4	00	Η	4	30
	I- 4 dr.	10-30 gr.	I- 4 OZ.	2 1/2 dr.	sy) 20-60	I- 2 0Z.	I- 4 dr.	I- 2 OZ.	2- 6 dr.	I- 2 0Z.	1/2- 2 dr.	2- 3 dr.	1/2- I dr.	1/2- 2 dr.	15-30 m.	I- 2 dr.	2-8 dr.	20-90 gr.	I- 4 dr.	. I- 2 OZ.
Subrarehalin	Sol. 1-1000	Svapnia	Sweet Spirit Nitre	Tallianine	Tanacetum Ol (Tan	Taraxacum	Ext.	Fld. Ext.	Terebene	Terebinthinae Ol.	Terpin Hydrate	Thalline Sulphate	Thiosinamin	Thymol	Tiglii, Ol.	Tobacco	Tonga, Fld. Ext.	Tribromphenol	Trional	Triticum, Fld. Ext

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HORSI	E AND	.wc	SHEEP AND SWINE.	AND 8	WINE.	1	DOG	
;		Metric.	Apoth.		Metric.	Apoth.		Metric.
15-45 gr.	. I	1 3.	8–15 gr. 0.5	0.5	- I.	5-10 gr. 0.3	0.3	9.0 -
~		- 60.	I- 4 dr. 4.	4		10-30 m.	9.0	- 2.
Ñ		-120.	$\frac{1}{2}$ I oz.	15.	-30.	1/2- 4 dr.	6	-I5.
200		- 24.						
	2- 4 dr. 8.	- 15.	$\frac{1}{2}$ I dr.	2.	2 4.	15-45 gr.	Ι.	- 3.
		- I.3	$\frac{1}{3}$ - 2 gr.	0.03		½- 1 gr.	0.01	90.0 -
		- I5.	15-20 gr.	Ι.		TO gr.	9.0	
		- 15.	15-30 gr.	Ι.		10-15 gr.	9.0	- I.
		- 15.	10-45 gr.	9.0		7-30 gr.	0.5	- 2.
		- 60.	1/2- 1 dr.	2.		1/2- 1 dr.	2.	- 4.
		-I20.	2- 4 dr.	∞.		10-60 m.	9.0	4.
	I- 20Z. 30.	- 60.	1- 2 dr.			10-60 gr.	0.6	- 4.
	30.	- 60.	1- 2 dr.			10-60 m.	9.0	- 4
			1-3 dr.			1/2- 2 dr.	2.	· 00 I
		•	1-3 dr.	4	-I2.	1/2- 2 dr.	2.	ا ق
=	1/2- 1 dr. 2.	- 4.	10-20 m.			2- 5 m.	0.13	- 0.3
균.	. 4	- I5.	5-10 gr.		9.0 -	2- 5 gr.	0, 13	- 0.3
=		- I2.	3-8 gr.			I- 2 gr.	90.0	- 0.2

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DOG .	Metric.	0.06 - 0.6 0.0015- 0.006 0.13 - 0.2 0.06 - 0.2 0.3 - 2. 0.03 - 0.06 2. 0.03
A	Apoth.	1.10 gr. 2-3 gr. 1-3 gr. 5-3 gr. 5-3 gr. 5-3 gr. 72-2 dr. 10-60 m.
SHEEP AND SWINE	Metric.	0.6 - 1.3 0.003- 0.013 0.6 - 1.3 0.2 - 0.4 4 8. 0.2 - 0.4 4 8. 0.2 - 0.4 8 15.
SHEEP	Apoth.	10-20 gr. 10-20 gr. 10-20 gr. 3-6 gr. 1-2 dr. 1-2 dr. 2-4 dr.
HORSE AND COW	Metric.	4. 8. 1.3 - 8. 1.3 - 4. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.
HORSE	Apoth.	1 2 dr. 1 2 dr. 1 2 dr. 2 6 dr. 2 8 dr. 10 20 gr. 1 2 oz.
		Zinc Oxide Phosphide Sulphate Valerianate Zingiber Fld. Ext. Oleoresin Syrup Tinct.

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THERAPEUTIC TERMS

ABLUENT. A cleansing agent. (Soap and water.)
ABORTIFACIENT. An agent causing premature birth of young. (Ergot.)

ABSORBENT. An agent causing absorption of exudates or diseased tissues. (Iodine. Chalk.)

ACRID. A sharp, biting substance. (Pepper.) ADJUVANT. A medicine that assists the action of another. (Calomel with Aloes.)

ALIMENT. A material which nourishes. (Food.)

ALKALOID. A term derived from the Arabic "Alkali" for Potash. The ending oid is from the Greek which means like, hence "Alkaloid" is a substance which reacts with litmus like an alkali and forms a salt with an acid. The prefix in "Alkali" is the Arabic "al" which is the definite article, "the," hence "alkali" literally means "the Potash." The modern use of the term alkaloid, however, has no reference to potash, but is used to designate a certain class of active principles obtained from plants. They are organic bases containing nitrogen and form salts with acids. (Atropine.)

ALTERATIVE. A medicine used to modify nutrition so as to overcome morbid processes. (Potassium Iodide.)

ANASTHETIC. An agent used to produce insensibility to pain. (Chloroform.)

ANALGESIC. A medicine used to alleviate pain. (Opium.)

ANAPHRODISIAC. A medicine used to allay sexual excitement. (Potassium Bromide.)

ANHIDROTIC. An agent which lessens the secretion of sweat. (Belladonna.)

ANODYNE. An agent which diminishes sensibility to pain. (Compound Spirit of Ether.)

ANTACID. A medicine used to neutralize acids in the stomach and intestines. (Liquor Potassae.)

ANTAGONIST. A medicine which opposes the action of another medicine in the system. (Potassium Bromide and Strychnine.)

ANTHELMINTIC. A remedy for destroying or expelling worms or, to prevent their development. (Santonin.)

ANTIDOTE. A substance to counteract poisons. (Sulphates in Carbolic Acid poisoning.)

ANTIEMETIC. An agent which allays vomiting. (Bismuth Subnitrate.)

ANTIFEBRILE. An agent for the reduction of fever, (Acetanilid.)

ANTILITHIC. An agent tending to dissolve or cure stone or gravel. (Potassium Citrate.)

ANTIPARASITIC. A substance that destroys or drives away insects. (Essential Oils.)

ANTIPERIODIC. A medicine which tends to prevent the periodic recurrence of disease. (Quinine.)

ANTIPHLOGISTIC. Any medicine or treatment which tends to check inflammation. (Aconite.)

ANTIPYRETIC. A medicine to reduce body temperature in fevers. (Salicylic Acid.)

ANTISEPTIC. An agent antagonizing sepsis or putrefaction. (Carbolic Acid.)

ANTISPASMODIC. A medicine for preventing or relieving spasms. (Valerian.)

ANTITHERMIC. An agent for the reduction of high temperature. (Antipyrin.)

ANTIZYMOTIC. A substance preventing fermentation. (Salicylic Acid.)

APERIENT. A mild agent for opening the bowels. (Rochelle Salts.)

APHRODISIAC. An agent for stimulating sexual power. (Damiana.)

AROMATIC. A medicine possessing a spicy or pungent taste and odor, and more or less stimulating to the mucosa of the alimentary tract. (Cardamon.)

ASTRINGENT. A medicine causing contraction or constriction of tissues. (Tannin,)

AUXILIARY. Amedicine that assists another. (Chloral with Potassium Bromide.)

BITTER. A medicine with a bitter taste stimulating the gastro-intestinal mucosa without materially affecting the general system. (Gentian.)

BLENORRHAGIC. A remedy for increasing the secretion of mucus. (Balsam Tolu.)

BLISTER. An agent, which when applied to the skin, causes a local inflammatory exudation of serum under the epidermis. (Cantharides.)

CACHEXIA. A term used to designate any morbid tendency, dyscrasia, or depraved condition of general nutrition, etc., used particularly in connection with scrofula, syphilis, cancer, etc.

CALEFACIENT. A medicine applied externally to produce a sensation of warmth to the part to which it is applied. (Mustard)

CALMANT. A medicine which lowers functional activity. (Aconite.)

CALMATIVE. A medicine which quiets. (Morphine.)

CALORIFACIENT. A substance which has the

power of developing heat in the system. (Fats, Cod Liver oil.)

CALORIFIC. Same as Calorifacient.

CARDIAC DEPRESSANT. A medicine to reduce the heart's action. (Veratrine.)

CARDIAC STIMULANT. A medicine used to increase the heart's action. (Digitalis.)

CARMINATIVE. A remedy which allays pain by causing the expulsion of flatus from the alimentary canal. (Asafetida.)

CATALEPTIC. An agent causing animals to lose power over their muscles. (Cannabis.)

CATALYTIC. A medicine counter-acting or destroying morbid agencies in the blood. (Calomel.)

CATHARTIC. A medicine which quickens or increases evacuations from the intestines. (Castor Oil.)

CATHARTIC, CHOLAGOGUE. An agent stimulating the stool and flow of bile at the same time. (Podophyllin.)

CATHARTIC, DRASTIC. A medicine producing violent action of the bowels with griping pain. (Jalap.)

CATHARTIC, HYDRAGOGUE. A remedy which causes copious watery stools. (Elaterium.)

CATHARTIC, SALINE. Neutral salts of metals of the alkalies or alkaline earths which increase the stools. (Magnesium Sulphate.)

CATHARTIC, SIMPLE. A substance which causes one or two actions of the bowels. (Senna).

CAUSTIC. An agent used to destroy living tissue, (Silver Nitrate.)

CAUTERY. A substance used to corrode or destroy living tissues. (Nitric Acid.)

CAUTERY, ACTUAL. A heated metal or fire employed to destroy living flesh.

CAUTERY, POTENTIAL. A chemical used to destroy flesh. (Nitric Acid.)

CHALYBEATE. A tonic containing iron. (Tineture of Chloride of Iron.)

CHOLAGOGUE. A drug provoking the flow of bile. (Podophyllum.)

CONDIMENT. A substance used to improve the savor of food. (Salt, Pepper.)

CONSERVATIVE. A substance used for the preservation of others. (Honey.)

CONSTRINGENT. An agent producing constriction of organic tissue. (Oak Bark.)

CONVULSANT. A medicine causing convulsions. (Strychnine.)

CORDIAL. A medicine which increases the strength and raises the spirits when depressed. (Alcohol.)

CORRECTIVE. An agent used to correct or render more pleasant the action of other remedies, especially purgatives. (Coriander.)

CORROSIVE. A substance which disorganizes or destroys living tissue. (Nitric Acid.)

COUNTER IRRITANT. A remedy used to produce an irritation in one part to relieve a pain in another part. (Blister.)

CUMULATIVE POISON. A poison which finally acts with violence after several successive doses have been taken with little or no apparent effect. (Strychnine.)

DEBILITANT An agent which diminishes the energy of organs, (Lobelia.)

DEFERVESCENT. A agent to reduce fever. (Aconite.)

DELIRIANT. A substance which produces delirium. (Stramonium.)

DELIRIFACIENT, (like deliriant). Tending to cause delirium. (Alcohol.)

DEMULCENT. A mucilaginous or oily substance to soothe and protect irritated mucous membranes. (Ulmus.)

DEOBSTRUENT. A medicine to remove functional obstructions in the system. (Aloes.)

DEODORANT. A substance to conceal or destroy foul odors. (Phenol.)

DEODORIZER (like deodorant) to hide or destroy foul odors. (Chlorine.)

DEPILATORY. A substance to remove hair. (Barium Sulphide.)

DEPLETIVE. A substance to reduce the vital power of the system. (Aconite.)

DEPLETORY. An agent to diminish the quantity of liquid in the body. (Potassium Nitrate.)

DEPRESSANT. An agent to lower the vital power. (Aconite.)

Depresso-Motor. A medicine to lessen motor activity. (Bromides.)

DEPURANT. An agent to cleanse foul sores, etc. (Hydrogen Dioxide.)

DEPURATIVE. A medicine to act upon the emunctories so as to cause excretion and thereby purify the system. (Hot Drinks.)

DEPURATORY. An agent to purify the blood, etc. (Sulphur.)

DERMATIC. A remedy used in skin diseases. (Resorcin.)

DERMIC. A medicine acting through the skin. (Liniments.)

DERIVATIVE. An agent to draw the fluids from one part of the body to another to lessen or relieve a morbid process. (Mustard.)

DESICCANT. A medicine or application for drying up sores. (Boric Acid.)

DESICCATIVE. An application for drying up secretions. (Zinc Oxide.)

DESICCATORY. A remedy applied externally to dry up the moisture or fluids from a wound. (Starch.)

DESQUAMATIC. A remedy to remove scales from the skin or bones. (Potassium Iodide.)

DETERGENT. An agent to cleanse wounds and ulcers. (Soap and Water.)

DIAPHORETIC. A medicine to produce sweating. (Pilocarpine.)

DIARRHETIC. A remedy producing profuse stools. (Mandrake.)

DIETETIC. A nutritious remedy. (Arrow-Root.)

DIGESTANT. A substance to aid the solution of food in the mouth, stomach, or intestines. (Pepsin, Pancreatin.)

DIGESTIVE. A tonic which promotes digestive processes. (Quassia.)

DILUENT. A medicine to dilute secretions and excretions. (Gamboge.)

DISCUTIENT. A remedy to effect the absorption of tumors.

DISINFECTANT. A substance with the power of destroying disease germs or the noxious properties of decaying organic matter. (Formaldehyde.)

DISSOLVENT. A remedy promoting solution of tissue. (Iodides.)

DIURETIC. A drug to increase the secretion of urine. (Buchu.)

DRASTIC. An agent to cause violent action of the bowels. (Croton Oil.)

ECBOLIC. A drug to produce abortion. (Ergot.)
ELECTUARY. A composition of soft consistence
taken internally to allay irritation or alleviate
disease. (Honey, Molasses)

ELIMINATIVE. An agent to remove material from the body. (Magnesium Sulphate.)

EMETIC. A medicine to produce vomiting. (Ipecac.)

EMMENAGOGUE. A drug to stimulate menstruation. (Potassium Permanganate.)

EMOLLIENT. A substance used externally to mechanically soften and protect tissues. (Flaxseed Poultice, Oils.)

EPISPASTIC. An agent to produce a blister. (Strong Ammonia.)

ERRHINE. An agent to increase the nasal secretions. (Formalin.)

ESCHAROTIC. A substance to destroy tissue. (Chromic Acid)

EVACUANT. A medicine to expel substances from the body—chiefly with reference to the intestines. (Aloes.)

EXCITANT. An agent to arouse vital activity, or to produce increased action in an organism or any of its tissues. (Nux Vomica.)

EXHILARANT. An agent to stimulate the mind. (Alcohol.)

EXPECTORANT. A medicine to act upon the

pulmonary mucous membrane to increase or alter its secretions. (Ammonium Chloride.)

FEBRIFUGE. An agent to decrease fever. (Aconite.)

GALACTAGOGUE. A medicine to increase the secretion of milk. (Pilocarpine.)

GERMICIDE. An agent to destroy parasites. (Carbolic Acid.)

HEMATINIC. A tonic for the blood. (Hemoglobin. Iron Preparations.)

HEMOLYTIC. An agent which impoverishes the blood. (Mineral Acids.)

HEMOSTATIC. A remedy to check bleeding. (Iron Subsulphate. Monsell's Powder.)

HEPATIC DEPRESSANT or Sedative. A medicine to decrease the functions of the liver. (Opium.)

HEPATIC STIMULANT. A drug to increase the liver's functions. (Nitrohydrochloric Acid.)

HIDROTIC or Hydrotic. An agent to produce perspiration. (Spirit Nitrous Ether.)

HYDRAGOGUE. An agent causing full watery discharges from the bowels. (Gamboge:)

HYPERÆSTHETIC. Increasing the sensitiveness of the skin.

HYPNOTIC. A drug producing sleep. (Chloral), HYPOSTHENIC. A debilitating medicine, (Lobelia.)

INCITANT. A remedy to excite functional activity. (Strychnine.)

INSECTICIDE. A remedy to destroy insects. (Benzine.)

INTOXICANT. An agent to excite or stupefy. (Alcohol.)

IRRITANT. A substance causing irritation, pain, inflammation and tension, either by mechanical or chemical action. (Heat, Mustard.)

LACTAGOGUE. An agent to increase the secretion of milk. (Malt.)

LAXATIVE. A medicine acting mildly in opening or loosening the bowels. (Sulphur.)

LENITIVE. An agent having the quality of easing pain or protecting tissues from the action of irritants. (Oils.)

LIQUEFACIENT. An agent promoting the liquefying processes of the system. (Iodine.)

LITHAGOGUE. An agent to expel calculi from bladder or kidney. (Benzoic Acid or Benzoates.)

LITHOLYTIC. An agent to dissolve gravel.

(Ammonium Benzoate.)

LITHONTRIPTIC. An agent to dissolve gravel. (Potassium Carbonate.)

LOCAL ANESTHETIC. A medicine to destroy sensation, when applied locally. (Cocaine Hydrochlorate.)

LOCAL ASTRINGENT. An agent to contract the tissues with which it comes in contact. (Lead Acetate.)

LUBRICANT. An agent to soothe irritation in the throat, fauces, etc. (Olive oil. Honey.)

MECHANICAL. An agent acting on a physical basis. (Slippery Elm.)

MEDICAMENT. Any agent used for curing diseases or wounds. (Belladonna.)

MEDICINE. A substance administered in the treatment of disease. (Arsenic.)

MYDRIATIC. An agent causing dilatation of the pupil. (Atropine. Cocaine.)

MYOTIC. A drug causing contraction of the pupil. (Morphine.)

NARCOTIC. A powerful remedy causing stupor. (Opium).

NAUSEANT. A substance causing sickness in the stomach. (Ipecac.)

NEPHRITIC. Medicine used in renal diseases. (Uva Ursi.)

NERVINE. Medicine to calm the nervous system. (Bromides.)

NEUROTIC. A medicine acting upon the nervous system. (Camphor Monobromate.)

NUTRIENT. A substance to build up the wasted tissues of the system. (Cod Liver Oil.)

NUTRIMENT. Any substance which promotes growth and repairs the waste of the tissues. (Food.)

OBTUNDENT. An agent which relieves irritation or reduces sensibility. (Opium.)

ODONTALGIC. An agent for the relief of toothache. (Oil of Cloves.)

ODORANT. A substance with a pronounced odor. (Musk.)

OPIATE. A medicine causing sleep. (Opium, Chloral.)

OXYTOCIC. An agent to aid or produce parturition. (Ergot. Cotton Root.)

OXYURICIDE. An agent destructive to parasitic (Oxyuris) worms. (Santonin.)

PABULUM. Any material which affords nour-ishment to the tissues. (Food.)

PALLIATIVE. A remedy for the relief but not necessarily the cure of a disease. (Morphine.)

PANACEA. A remedy pretending to cure all diseases. (Some Patent Medicines.)

PARASITICIDE. A remedy for the destruction of parasites. (Calcium Sulphide.)

PARTURIENT or Parturifacient. A medicine to aid in the birth of the young. (Ustilago.)

PERISTALTIC. A drug increasing the movement or contraction of the intestines. (Strychnine.)

PLACEBO. An inert substance given to satisfy a patient. (Sugar of Milk, Bread Pill.)

POISON. A substance which in sufficient amount is destructive to life. (Prussic Acid.)

POTENTIAL. A remedy which though powerful, is somewhat delayed in its action. (Arsenic.)

PRESERVATIVE —An agent to prevent deterioration of another substance. (Boric Acid.)

PREVENTIVE. Any measure or agent which retards or prevents disease. (Hygiene. Quinine as a preventive of malaria.)

PROPHYLACTIC. A medicine to prevent the taking or development of disease. (Vaccine.)

PROTECTIVE. An agent to protect the part to which it is applied. (Collodion.)

Pungent. An agent sharp and stimulating in its action. (Ammonia.)

PURGATIVE. A medicine to produce increased discharges from the bowels. (Aloes.)

PUSTULANT An agent which, when applied externally, causes the formation of pus. (Croton Oil.)

RECUPERATIVE. A medicine to restore strength, (Cod Liver Oil.)

REFRIGERANT. An agent which produces the sensation of coolness. (Alcohol externally.)

RELAXANT. An agent that relieves contracted tissues, muscles, etc. (Chloroform.)

REMEDY. An agent used in the treatment of disease. (Medicine.)

REPARATIVE. A substance to restore debilitated tissues. (Food. Tonics.)

RESOLVENT. A remedy for the removal of hard tumors. (Iodine,)

RESTORATIVE A medicine for causing a return of bodily vigor. (Arsenic. Strychnine,)

REVULSANT or Revulsive. An agent that by irritation, draws fluid from a distant diseased part. (Cantharides.)

RUBEFACIENT. An agent causing irritation and redness of the skin. (Mustard.)

SALINE. A cooling salt. (Magnesium Sulphate.)
SEDATIVE. A medicine to decrease functional activity. (Potassium Bromide.)

SEPTIC. An agent that promotes putrefaction. (Bacteria.)

SIALAGOGUE. A medicine that promotes the flow of saliva. (Pyrethrum. Pilocarpus.)

SIMPLE BITTER. A drug with a bitter taste and tonic action. (Calumba. Quassia).

SOMNIFACIENT. An agent to induce sleep. (Morphine.)

SOPORIFIC. A drug causing drowsiness and sleep. (Morphine.)

SORBEFACIENT. A medicine causing abortion. (Ergot.)

Specific. A remedy supposed to exert a special action in the prevention or cure of certain diseases. (Quinine in Malaria, Potassium Iodide in Actinomycosis.)

STERNUTATORY. An agent causing sneezing. (White Hellebore.)

STIMULANT. A medicine to increase or quicken functional activity. (Ammonium Carbonate.)

STOMACHIC. A drug to stimulate functional activity of the stomach (Gentian.)

STOMATIC. A medicine used for diseases of the mouth (Potassium Chlorate. Borax.)

STUPEFACIENT. A drug causing stupefaction. (Opium.)

STYPTIC. Agents causing contraction of blood vessels to check bleeding. (Alum.)

SUCCEDANEUM. A medicine that may be substituted for others possessing similar properties. (Chloral for Potassium Bromide.)

SUDORIFIC. A medicine or agent causing increased sweating. (Jaborandi.)

SUPPURANT. A substance causing the formation of pus. (Croton Oil.)

SYNERGIST. A drug which cooperates or assists the action of another. (Chloral with Bromides.)

TÆNICIDE. A remedy for destroying tape worms. (Male Fern.)

Tænifuge. An agent to expel tape worms. (Areca Nut.)

TETANIC. A drug which increases the irritability of the cord or muscles producing spasms. (Strychnine.)

TONIC. A medicine promoting nutrition and giving tone to the system. (Arsenic.)

TOPIC or Topical. An external local remedy. (Liniment.)

TOXIC. A poisonous substance. (Phosphorus.)
TRICOPHYIA. Remedies promoting the growth
of the hair. (Pilocarpine.)

UTERINE. An agent acting upon the uterus. (Ustilago.)

VEHICLE. A substance used as a medium for the administration of medicines. (Syrups.)

VERMICIDE. An agent to destroy parasitic worms, (Creosote,)

VERMIFUGE. An agent to expel parasitic worms. (Arecoline Hydrobromate. Purgatives).

VESICANT. A blistering agent. (Cantharides.)

VIRUS. A poison causing a morbid process or disease; a pathogenic organism. (Cowpox. Virus of Rabies.)

VULNERARY. Any remedy or agent for healing wounds. (Ointments, etc.)

ZOIATRICA. Veterinary Medicines.

TERMINATION OF MEDICAL TERMS.*

Æ-RE-SIS (airesis, a taking of anything). Example (dia, throughout), Di-æ-re-sis, a breach of continuity.

A-GOGUE (agogos, one who leads), denoting substances which expel others. Example, cholagogues (chole, bile), purgatives expelling bile.

AG-RA (agra, seizure), denoting seizure or pain, generally applied to gout. Ex., Cheir-ag-ra (cheir) gout in the hand. Ment-ag-ra (mentum, chin), eruption on the chin.

AL-GI-A (algos, pain). Ex., Ceph-al-al-gi-a (kep-hale, the head). Neu-ral-gi-a, pain in a nerve.

CELE (kele, a tumor). Ex. (bonbon, the groin), Bu-bon-o-cele, a tumor in the groin.

CEPH-A-LUS (kephale, the head), denoting some affection of the head. Ex., A-ceph-a-lus, without a head.

CRA-NI-UM (kranion, the skull), denoting the head of anything; (olene, the ulna). O-le-cra-non, the head of the ulna.

DEM-IC, (demos, a people). En-dem-ic, diseases in or among, or peculiar to a people.

En-ter-v (entera, the bowels), denoting affections of the bowels. Ex. (dus, with difficulty). Dys-en-ter-y, inflammation of mucous membrane of large intestines.

FA-CI-ENT (fa-ci-o, to make), denoting the production of any particular effect. Ex., Ru-be-fa-ci-ent, a substance which makes the body red.

^{*}Adapted from Hoblyn's Medical Dictionary.

FORM (forma, likeness), denoting resemblance, Ex., A-e-ri-form, like air.

Fuge (fugo, I expel), denoting that which expels. Ex., Feb-ri-fuge, a substance which expels fever.

GEN—GEN-E-SIS—GEN-OUS (genesis, generation), denoting production or generation. Ex., Oxygen (oxus, acid), generating acid, as was supposed, Ex-o-ge-nous, outside growing, applied to plants growing by external increase.

GNO-SIS (gnosis, knowledge). Ex. (dia, throughout). Di-ag-no-sis, distinction of diseases.

GRAPH-Y (graphe, writing), a description of anything. Ex., Ad-e-no-graph-y, (aden, a gland), a description of the glands.

HEX-I-A (exis, a habit), denoting an habitual state. Cac-hex-i-a (kakos, bad), bad state of the body.

LEP-SY (lepsis, a taking), denoting the act of taking). Cat-a-lep-sy (kata, thoroughly), a spasmodic attack of the limbs retaining them in one position.

Lo-GY (logos, an account), denoting a treatise on or description of anything. Ex., Os-te-ol-o-gy (osteos, a bone), a description of the bones.

Ly-sis (*lusis*, a loosening). Ex., A-nal-y-sis, the resolution of a compound body into its constituent parts.

Ma-NI-A (mania, madness). Ex., Mo-no-ma-ni-a (monos, alone), madness on one subject.

ME-TER (metron, a measure). Ex., Ther-mometer (therme, heat), a measurer of heat.

O-DYNE—O-DYN-I-A (odune pain). Ex-, An-o-dyne, without pain.

OID (eidos, likeness). Ex., Ad-en-oid (aden, gland), like a gland.

OPH-THAL-MOS (opthalmos, the eye). Xer-oph-thal-mi-a (xeros, dry), dryness of the eye.

O-REX-I-A (orexis, appetite or desire). Ex., An-o-rex-i-a, want of appetite.

PATH-I-A—PATHY (pathos, affection). Ex., Ho-moe-o-path-y (omoios, similar), the art of curing by inducing a similar disease.

PEP-SI-A (*pepsis*, digestion). Dys-pep-si-a (*dus* with difficulty), difficult digestion.

PHA-GI-A (phago, to eat). Ex., Dys-pha-gi-a, difficulty of swallowing.

PHO-BI-A, (phobos, fear). Ex., Hy-dro-pho-bi-a, (udor, water), dread of water.

PHO-NI-A (phone, voice). Ex., A-pho-ni-a, loss of voice.

PHO-RUS (phero, I convey). Ex., Phos-phor-us (phos, light), conveying light.

PHY-SIS (phusis, nature), denoting production or existence. Ex., Sym-phy-sis (sum, with), the growing together of bones, as of ossa pubis.

Ple-GI-A (plege, a stroke) He-mi-ple-gi-a (Hemisus, half), a paralysis of one side of the body.

PNŒA (pnoia, breathing). Ex., Dys-pnœa, difficulty of breathing.

Pro-sis (ptosis, a falling down).

PTY-SIS (ptusis, a spitting). Ex., Hae-mo-pty-sis (Haima, blood), a spitting of blood.

RHA-GI-A (rago, I burst forth). Ex., Haem-or-rha-gia, a bursting forth of blood.

RAPH-E (raphe, a seam). Ex., Staph-y-lor-raph-y, a sewing up of fissures of the palate.

RHŒA (reo, I flow). Ex., Leu-cor-rhœa (Leukos, white), a white discharge.

SAR-CA or SAR-CI-A (sar.v, flesh). Ex., Polysar-ci-a (polus, much), excess of flesh.

Scope—Sco-PV (skopos, an inspection). Ophthal-mo-scope, an instrument to inspect the eye.

STA-SIS (*istemi*, I stand), denoting a standing or preposition in a place. Ex., Met-a-sta-sis (*meta*, a position denoting change from one place to another), transference to another part.

STO-MA (*stoma*, the mouth). Di-sto-ma (*dis*, twice), two-mouthed.

THE-SIS (thesis, a position). Di-ath-e-sis, dia, throughout.) The condition throughout, constitutional condition.

Tome—To-my (tome, a section.) An-at-o-my, cutting up a dissection. Ker-a-tome, a knife for dividing the cornea.

TO-NI-A-TO-NOS (tonos, tension). Ex.

A-to-nia A-ton-ic without tone.

TRO-PHY (trophe, nourishment). A-tro-phy defective nutrition.

U-RE-SIS—U-RI-A (ouresis, the act of discharging urine). Ex., Dys-u-ri-a, difficulty in discharging the urine.

PRESCRIPTION WRITING

A prescription may be defined as a written order or formula of ingredients, with directions to the compounder and instructions for the guidance of the patient. The term is derived from the Latin prae "before" and scriptum "written."

It is generally conceded that Latin is the best language for prescriptions. It is a dead language and therefore not subject to the variations which modern languages are continually undergoing. It is unchangeable the world over and a prescription written in this country may be put up in a foreign country with equal facility. The Latin name of a drug is distinctive and as a rule means only a given drug and ambiguity is therefore avoided; in some of the modern languages a given drug may have a variety of names, and in some cases the same name is applied to different drugs. Finally there is an element of secrecy which is often desirable to prevent the patient or general public from knowing what has been prescribed, and there is less likelihood of "self doctoring" or using the prescription for some disorder for which it is not applicable.

A true principle of a prescription as based upon a maxim of Asclepiades, Curare cito, tuto et fucunde, is to Cure quickly, safely and pleasantly. According to this rule the typical prescription should contain, in the first place, an ingredient which is expected to relieve or cure the patient and is therefore called the Basis; second, an ingredient designed to assist the action of the basis so that it may do its work more quickly, designation

nated as the Adjuvant; third, a substance intended to correct or modify any undesirable or injurious effect of the basis or adjuvant, or to cause it to act more safely than if used alone, and on this account is referred to as a Corrective; and fourth, a substance may be added, which will give such form and consistence to the preparation as to make it pleasant and at the same time dilute the whole preparation to the proper proportion for measuring out the intended doses, termed the Vehicle. The following table will express the idea in a concrete form:

```
Curare (Cure) with the (Basis).
Cito (Quickly) " " (Adjuvant).
Tuto (Safely) " " (Corrective).
et
```

Jucunde (Pleasantly) " (Vehicle).

In Veterinary practice jucunde is generally ignored as the patients do not take to the idea of medicines pleasantly as a rule, and the principal use of the Vehicle is to dilute the ingredients to the proper dosage.

In addition to the ingredients other data are given, such as the date, name of patient, directions to the compounder and to the patient, and the signature of the physician. Taking the prescription in its entirety it may be divided as follows:

Superscription or heading includes the symbol R (Recipe) the first direction, "take".

Inscription, the ingredients, or basis, adjuvant, corrective and vehicle.

Subscription, the directions to the compounder.

Signature, the directions to the patient and the signature of the prescriber with the date.

In a simple prescription the basis may be the only ingredient. In a compound prescription (with two or more ingredients), the agents added may be neither adjuvant nor corrective and yet be a good prescription. It is desirable, however, to keep the consideration of a "typical" prescription in mind.

Unusual doses of a powerful drug may be refused by the pharmacist unless some indication is made that the dose is intended. This is usually done by underscoring the dose, or better yet writing after it the abbreviation Q. R. (Quantum Rectum).

A tonic prescription for the horse illustrating the points referred to may be given as follows:

Mr. G--- Bay Mare, Daisy.

Superscription, R Apoth. Met. Inscription,

(Basis) Nucis Vomicae pulv. $3\overline{v_J}$ 24

(Adjuvant) Ferri Sulphatis pulv. $3\overline{v_J}$ 24

(Corrective) Aloes Barbadensis pulv. $3\overline{u_J}$ 12

(Vehicle) Syrupi Zingiberis. q. s.
Subscription. Misce et fiant boli sex.
Signature. Give one ball morning and night.
RICHARD ROE, D.V.M.,

JAN. 2, 1905. 148 Second Street.

The metric system is coming more and more into use so that a knowledge of it will in a few years, be indispensable. The beginner should learn to write his prescriptions in both the apothecary and metric systems.

The ingredients of a prescription are frequently abbreviated and although writing out in full is better there is no special objection to the former practice if there is no ambiguity in the abbreviations. Grievous errors have occurred in this way and too much caution cannot be exercised in making the meaning clear, so that the most ignorant drug clerk may avoid error.

Numerous examples of ambiguous abbreviations might be given, but a few mentioned below will serve as examples:

Acid hyd. may mean either hydrobromic, hydrochloric, hydriodic, or hydrocyanic acid.

Chlor. may mean chlorine, chloroform, chloral hydrate, chlorate or chloride.

Hydr. Chlor. may mean calomel, corrosive sublimate, hydrate of chloral, or hydrastin hydrochlorate.

The context may often assist in arriving at the correct meaning of the abbreviation but it is not safe in all cases to depend upon this.

A limited knowledge of Latin will serve to enable one to write prescriptions properly. The student becomes familiar with the Latin names of drugs if he has studied his Materia Medica faithfully. The principal difficulty that he encounters is in making the changes necessary for the correct grammatical wording to the dispenser and the grammatical ending of the ingredients and their quantities.

The following simple rules taken from Mann,

will, it is believed, enable one not previously acquainted with Latin, to write proper prescriptions with correct endings.

RULE I. The noun expressing the name of the medicine is put in the genitive case, when the quantity of it to be used is expressed.

RULE II. If no quantity is expressed, but only a numeral adjective follows, the noun is put in the accusative.

RULE III. The quantity is put in the accusative case governed by the imperative Recipe.

RULE IV. Adjectives agree with these nouns in gender, number and case.

For every day practice the accusative of the quantity is seldom written out but is usually expressed by the more convenient symbols. The principal difficulty is the formation of the genitive case. The following rules (Mann) will assist in overcoming the difficulty. They apply only to pharmacopæial nouns.

RULES FOR FORMATION OF GENITIVE CASE.

- 1. All nouns ending in a form the genitive in æ as quinina, quininæ. Exception.—Physostigma, Physostigmatis and some others.
- II. All nouns ending in us, um, os, on, form the genitive in i as Conium, Conii. Exceptions Rhus, gen. Rhois, Flos, gen. Floris, Erigeron, gen. Erigerontis; Fructus, Cornus, Quercus, Spiritus, do not change.
- III. All other nouns of whatever termination make the genitive in s, or is, chloral, gen. chloralis. Some lengthen the termination thus:

as genitive atis as Acetas, Acetatis.

is "idis as Anthemis, Anthemidis.

o " onis as Pepo, Peponis.

x " cis as Cortex, Corticis.

There are a few exceptions. Asclepias, gen. Asclepiadis; Mas, gen. Maris; Phosphis, Sulphis, etc. gen. itis; Mucilago, gen. Mucilaginis; Solidago, gen. Solidaginis, etc.

The following words do not change in their genitive: Amyl*, Azedarach, Berberis, Buchu, Cajuputi, Cannabis, Catechu, Condurango, Cornus, Curare, Fructus, Digitalis, Hydrastis, Jaborandi, Kino, Matico, Quercus, Sassafras, Sago, Sinapis, Spiritus.

It is seldom necessary to use the accusative of the nouns expressing the ingredients, only when the quantity is omitted, and a numeral adjective takes its place.

As before stated, the use of the appropriate symbols renders it unnecessary, as a rule, to write out in the accusative the words expressing quantity. Sometimes, however, it is desirable to do so, and the following simple rules for the formation of the accusative of these words are appended:

I. Nouns expressing quantity ending in a, are feminine and make the accusative singular in am and the plural in as. Example, Drachma, acc. sing. Drachmam, pl. Drachmas.

II. Those ending in um or us make the accu-

^{*}Those in italics are indeclinable, those in us are of the fourth declension; the others are of the third. Apiol and Sumbul are given as indeclinable by some authorities, Dunglison gives Apiolum, i: Sumbul, i; Amyl, Amylis is also given.

sative singular in um. The accusative plural of those in us is in os, and of those in um in a. Those in us are masculine, those in um are neuter.

Congius, acc. sing. Congium, acc. pl. Congios. Granum, "Granum, "Granum, "Grana."

The adjectives are declined like the nouns. The numeral cardinal adjectives are indeclinable except unus, duo and tres.

They are thus declined:

	Masculine.	Feminine.	Neuter.
Nom.	unus,	una,	unum.
Gen.	unius,	unius,	unius.
Acc.	unum,	unam,	unum.
Nom.	duo,	duae,	duo.
Gen.	duorum,	duarum,	duorum.
Acc.	duos,	duas,	duo.
Nom.	tres,	tres,	tria.
Gen.	trium,	trium,	trium.
Acc.	tres,	tres,	tria.

The following is a list of some of the more frequently used numeral adjectives:

	CARDINALS.	ORDINALS.
1	I Unus	1st Primus
2	II Duo	2nd Secundus
3	III Tres	3rd Tertius
4	IV Quatuor	4th Quartus
5	V Quinque	5th Quintus
6	VI Sex	6th Sextus
7	VII Septem	7th Septimus
8	VIII Octo	8th Octavus
9	IX Novem	9th Nonus

10	. X	Decem	10th Decimus
II	XI	Undecim	11th Undecimus
12	XII	Duodecim	12th Duodecimus
13	XIII	Tredecim	13th Tertius decimus
14	XIV	Quatuordecim	14th Quartus decimus
15	XV	Quindecim	15th Quintus decimus
16	XVI	Sexdecim	16th Sextus decimus
17	XVII	Septendecim	17th Septimus deci m us
18	XVIII	Octodecim	18th Octavus decimus
19	XIX	Novendecim	19th Nonus decimus
20	XX	Vigenti	20th Vicesimus
21	XXI	Vigenti unum	21st Vicesimus primus
22	XXII	Vigenti duo	22nd Vicesimus secun- dus
30	XXX	Triginta	30th Tricesimus
40	XL	Quadraginta	4oth Quadragesimus
50	L	Quinquaginta	50th Quinquagesimus
60	LX	Sexaginta	6oth Sexigesimus
70	LXX	Septuaginta	70th Septuagesimus
80	LXXX	Octaginta	8oth Octogesimus
90	XC	Nonaginta	90th Nonagesimus
100	C	Centum	100th Centesimus

The verbs are nearly all used in the imperative mood, being addressed to the compounder. Only a few prepositions are commonly used; they are ad, to; ana (Greek), of each; cum, with; in, into; ad and in govern the accusative, cum, the ablative and ana the genitive cases.

The following abbreviated prescription may be used, when written out in full and rendered into Latin, to illustrate many of the points already referred to:

R Powd. Scammony 9 ss gr v Calomel gr IIj

M. Fiat pulvis purgans.

The prescription is taken from Pereira and Griffiths and when put into Latin would appear and be explained as follows:

Adjectives, par-

RULE.

ticiples and

the substantive in number, gender

and case.

Pulveris (of tive, genitive singular; from Pulpowder). Substanvis. eris governed by Scrupulum. R-Recipe (Take) Active verb; imperative agreeing with Tu mood, second person singular, understood; from

Recipio, ere. RULE.

agrees with its A personal verb number and pernominative in

signifying a dif-

genitive.

One substantive governs another ferent thing in the

RULE.

K (Understood)

Pulveris (of Governed by powder) as above. Rule as above.

tive, accusative, t singular; from Scrubulus, i, gov-erned by Recipe. Scammonia, ae. Governed by Pulstantive, genitive, singular; from

tive, singular, mas-culine, from Dim-

Adjective, accusa-Dimidium(half).

scruple). Substan-

Scrupulum (a

Scammoniae(of Scammony). Subidius, a, um, Agreeing with

scrubulum.

And the sub- A verb signify-stance governed ing activity govmay govern an- erns the accusa-RULE. other signifying a tive. different thing.* RULE.

Substantive, ac-Grana (grains). cusative, plural, neuter; from gragenitive, singu-lar; from Jalapa, Jalapae(of Jalap). Substantive, ae. Governed by

num, i, governed Rule as above. by Recibe. Rule as above.

Pulveris.

Quinque (five.) Adjective, clinable.

^{*}One substantive agrees with another which signifies the same thing in case—as Sodii Citratis unciam.

R (Understood)

singular, from Calomelas, Καλός and uelos gov-Calomelanos(of calomel). Substantive, genitive, erned by grana. Pulvis (a pow-

junctive mood; nominative, singular, masculine. Fiat. (Let be Pulvis (a powmade). Verb, sub- der.) Substantive, from Fio, fis, fac- g tus, sum. vel, fui, feri. n e u t e r agreeing with

stood; from misgular, agreeing with Tu undersecond personsinactive verb imperative mood, M = Misce(Mix)

ceo, ere.

Grana (grains). as above.

plural, neuter, from Tres, tres, tria. Agreeing with grana. Rule as above. Tria (three). Adective, accusative,

Purgans (purging). Participle, nominative, singular, masculine.
Agreeing with pulvis.

A few drugs in a prescription are usually better than many. It is irrational to combine a number of agents (shotgun prescription) without especial attention to the specific action of each.

In constructing a prescription, it is first necessary to decide upon the proper remedial agents; then upon the size of the dose and lastly the number of doses to be given. The prescription on p. 70 written out to show these details would be as follows:

R

Nucis Vomicae (single dose
$$51 \times 6 =)5vJ$$

Ferri Sulphatis (" $51 \times 6 =)5vJ$
Aloes Barb. (" $5ss \times 6 =)5\overline{uJ}$
Syrupi Zingiberis q. s.

Mix and make into six balls.

In practice the multiplication of single doses is carried out mentally and the product only is written down.

The Roman numerals should always be used to designate the quantities; thus: i, ii, iii, iv, v, vi, vij, viij, ix, etc. Always dot each i to avoid mistakes; the last i is usually made in the form of a j to show that it is the last of a series.

AN EASY METHOD OF WRITING PRESCRIPTIONS IN THE METRIC SYSTEM (AFTER LEONARD).

In a two ounce prescription a single dose, in grains or minims, is given in the same figures as the total amount of the drug in the prescription expressed in grams or cubic centimeters, as for example:

🎗 Extracti Belladonnae Radicis Fluidi

(2 minims dose) = 2 cc.

Potassii Bromidi (8 grains dose) = 8 grams Aquae q. s. 2 fluid ounces = 60 cc.

In a two ounce prescription there would be fifteen doses. In a gram or 1 cc. there are approximately 15 grains or minims; the basis is therefore 15 to 1. In a one ounce mixture there would be one half the above amounts; in a four ounce prescription there would be twice the above amounts.

COLEMAN'S EASY METHOD OF WRITING

PRESCRIPTIONS.

"It may be assumed for the purpose of writing prescriptions, that there are fifteen doses of a teaspoonful each in a 2 ounce mixture; 30 in a 4 ounce mixture; 60 in an 8 ounce mixture. Only in the case of dangerous drugs is a more accurate estimation necessary.

In a 4 ounce mixture, then, with a teaspoonful dose, each dose will contain $\frac{1}{30}$ of the total amount of any drug which may be in solution or uniform suspension.

In the case of drugs with a usual dose of about 5 gr. or m., I dram may be taken as the basis of calculation.

If I dram of a drug be added to a four ounce mixture, each teaspoonful will contain $\frac{1}{30}$ of a dram, or 2 grains or minims.

Taking 2, then, as a unit, it is only necessary to find the multiple of 2 which will give the desired

dose and this will represent the number of drams to be put into the prescription.

To take an example.

R

Tincturae Opii Camphoratae (dose 15 m.) .. 2×7½=5vij ss

Salol (dose 5 gr.) 2×21/2

=5 11 ss

Misturae Cretae M. et Sig.

q. s. ad 31v

In a 2 ounce mixture, each teaspoonful will contain 1 of a dram, or 4 gr. or m.

In an 8 ounce mixture, each teaspoonful will contain 1 of a dram, or 1 gr. or m.

From the above statements the following rule may be formulated:

Divide 60 (one dram) by the number of doses in the prescription and multiply the result by the numeral necessary to give the desired dose. This numeral will represent the number of drams to be used.

In the case of drugs with a maximum dose of less than a grain, I grain instead of I dram may be taken as the basis of calculation. Thus, if one grain be added to a 4 ounce mixture with a teaspoonful dose, each dose will contain 1 of a grain."

The above methods are applicable especially in human and canine practice.

LEONARD'S OUICK WAY OF REDUCING PERCENTAGES.

Call the numerator of the fraction one grain.

RULE II. Double the first figure of the denominator and call this ounces. This will then give almost mathematically correct reductions.

Thus: I to 1,000 would be I grain to 2 ounces; I to 2,000 would be one grain to 4 ounces; I to 3,000 would be I grain to 6 ounces: I to 4,000 would be I grain to 8 ounces; I to 5,000 would be I grain to 10 ounces and so on. If you want I to 500, this would be I grain to I ounce—there being 480 (500) grains or minims to the ounce. One to 100 would be 5 grains to I ounce.

By committing these two simple rules to memory, an instantaneous reduction for any percentage mixture can be made to the apothecary's basis."

WEIGHTS AND MEASURES

Those most generally used by the physicians and pharmacists in the United States are the Troy or Apothecaries Weights, and the Wine or Apothecaries Measures. The Metric System, however, has been recognized to such a great extent that it has beeome a necessity for physicians to become familiar with it.

TROY OR APOTHECARIES WEIGHTS

Pound (Libra)				orachm chma)		cruple rupulum		Grain (Granum)
th 1	=	12	=	96 .	=	288	=	5760
		3 I	==	8	<u> </u>	24	=	480
				31	=	3	=	60
						16	-	gr. 20

WINE OR APOTHECARIES MEASURES

Gallon Pint Fluidounce Fluidrachm Minim (Congius) (Octarius) (Fluiduncia) (Fluidrachma) (Minimum)

Cong.
$$I = 8 = 128 = 1024 = 61440$$

 $O I = 16 = 128 = 7680$
 $f \overline{5}_1 = 8 = 480$
 $f \overline{5}_1 = M. 60$

AVOIRDUPOIS WEIGHTS

Pound
 Ounce (Libra)
 Grain (Granum)

 1b. I
 =
 16
 =
 7000

 oz. I
 =
 gr.
$$437\frac{1}{2}$$

To avoid misapprehension in the use of the apothecary and avoirdupois systems, the symbols th, $\bar{3}$, $\bar{3}$, $\bar{9}$ should be consistently used for the apothecary, and the abbreviation lb., oz., gr., for the avoirdupois. The abbreviation for the Trov pound is characterized by the cross line drawn through the letters to and should always mean twelve ounces, while the avoirdupois pound stands for sixteen ounces. The symbol 3 means an apothecaries ounce of 480 grains, while "oz." means an avoirdupois ounce of 4374 grains. The grain weight is the same for both systems and the abbreviation gr. will cause no confusion. The grain is therefore the unit in both systems and the term is derived from the old system of weighing, which required that there should be used a "grain of wheat, well dried and gathered out of the middle of the ear." The abbreviation gr., for grain, should be consistently used in the apothecary system, gm, for gram, in the metric system.

In using the metric system of weights the gram

is ordinarily used as the standard and the other subdivisions are reckoned from it.

METRIC WEIGHTS

10 milligrams (mg.)	make	I	centigram	(cg.)
10 centigrams	make	Ι	decigram	(dg.)
10 decigrams	make	I	gram	(gm.)
Iooo grams	make	I	kilogram	(kilo.)

METRIC MEASURES

1000 Cubic centimeters (cc.) (Milliliters) make 1 liter (L).

I Gram equals the weight of I cc. of distilled water at a temperature of 4° C.

TABLE OF APPROXIMATELY EQUIVALENT WEIGHTS

	I	milligram	.001	=	$\frac{1}{64}$	grai	in .
	I	centigram	OI.	=	1/6	grai	n
	I	decigram	.I	=		grai	ns
	Ī	gram		=	$15\frac{\overline{1}}{2}$	grai	115
	4	grams (3	.9 gm.)	= '	I	drai	n
	30	grams (31	.1 gm.)	==	I	oun	ce
	500	grams (453	.6 gm.)		I	pou	nd (av.)
	I	kilogram		==	2.1/5	pou	nds (av.)
	$\frac{1}{64}$	grain=1 m	illigran	ı=		.001	gram
	1.	grain=1 ce	entigran	1-		10.	gram
	I	grain		=		.065	gram
15.	43	grains		=	I		gram
1	dra	am (apoth.)		==	3	.9o	grams
I	ou	nce (apoth	.)	===	31	I.	grams
1	mi	nim		===		061	cc.
16	mi	nims		==	· I		cc.
I	flu	idra m		= ,	3	.75	cc.
I	flu	idounce		= -	30		cc.

1 cc. = 16 minims 4 cc. (3.7 cc.) = 1 fluidram 30 cc. = 1 fluidounce

To convert grains into centigrams, multiply by 6.5. Thus 3 grains multiplied by 6.5 equals 19.5 centigrams, or 10 grains equals 65 centigrams or, .65 gram. To convert centigrams into grains divide by 6.5. Thus 26 centigrams divided by 6.5 equals 4 grains.

DOMESTIC MEASURES

A drop, gutta, (gtt.) is usually reckoned at about one minim.

A tea-spoonful is about one fluidram.

A table-spoonful is about one-half fluidounce.

A wine-glassful is about two fluidounces.

A tea-cupful is about five fluidounces.

A breakfast-cupful is about eight fluidounces.

A tumblerful is about eight fluidounces.

Domestic measures vary considerably. There may be from 50 to 150 drops in a fluidram, a teaspoon generally holds more than one dram, even as much as 2 drams or more. Cups and glasses also vary widely.

THE PRINCIPLES OF COMBINING DRUGS IN A PRESCRIPTION.

Although the tendency in modern therapeutics is toward simplicity rather than complexity in prescriptions, one may go to the extreme even in this direction. There is no doubt but that in very many cases a judicious combination of drugs will produce effects of a beneficial character which might be sought in vain from the use of a single remedy. A "shot gun" prescription, containing a great number of remedies introduced with the idea that by some lucky chance one or more of the ingredients may hit the disorder, is thoroughly unscientific and not to be encouraged.

The rational combination of drugs was, perhaps, first discussed fully by Dr. John Ayrton Paris (Paris Pharmacologia, 1822). His treatment of the question has been so clear and exhaustive, that there has been but little room for improvement. The following paragraphs are based principally upon his work:

- I. THE ACTION OF A MEDICINE MAY BE AUGMENTED (ADJUVANT ACTION).
- (a) By combining different forms of the same substance. An infusion is strengthened by the addition of the fluid extract or tincture of the same drug, in cases where all the active principles are not soluble in the same vehicle. Digitalis may be taken as an example, all of its active principles are not soluble in water.
 - (b) By combining the medicine with others

which produce similar effects. A rule enunciated by Dr. Fordyce is to the effect that combination of similar remedies will produce a more certain, speedy, and considerable effect than an equivalent dose of any single one. A combination of chloral and bromide potassium is more certain for hypnotic effects than either one alone. From the standpoint of purgation the same would be true of a combination of aloes and calomel, or as an emetic a mixture of ipecac and tartar emetic is more reliable for its effects than either drug singly.

(c) By combining with the basis substances of a different nature which can, in some unknown manner enhance its action. The diuretic effect of squill is increased by calomel, and ipecac assists

in the purgative action of jalap.

II. THE ACTION OF A MEDICINE MAY BE MODIFIED (CORRECTIVE ACTION) IN ORDER TO OVERCOME UNPLEASANT EFFECTS. The griping tendency of purgatives may be corrected by combination with aromatics or essential oils. Acrid substances may be more or less overcome by triturating with mucilage. The constipating effect of iron may be overcome by the addition of aloes. See prescription p. 70.

III. TO OBTAIN THE COMBINED OR JOINT ACTION OF TWO OR MORE MEDICINES.

(a) Upon the same tissue. Purgative medicines will serve as an illustration. Some act by increasing peristalsis, others by augmenting the secretion of the intestines, as in the case of eserine and pilocarpine. The combination of podophyllum with calomel, for their joint action upon the liver, may be cited as another example.

(b) Upon different tissues or to combat different symptoms. Probably the greatest number of prescriptions will come under this head. The desire to combat a number of different symtoms should not lead to excess in the combination of drugs. A well directed rifle ball will have a greater effect than a charge from a shot gun where only a few of the shot hit the mark. Some prescriptions have been reported which contained as many as 400 ingredients. The more complicated a prescription, the greater are the chances for failure.

The symptoms of fever with cough may be treated with small doses of ipecac as a sedative expectorant, tincture of aconite to quiet the circulation and allay the fever, with potassium bromide to alleviate excessive coughing. Other cases will readily suggest themselves. It may be desirable, in a given instance to stimulate the heart with one drug and the kidney or bowels with others.

IV. TO FORM NEW COMPOUNDS THE EFFECTS OF WHICH DIFFER FROM ANY OF THE INDIVIDUAL CONSTITUENTS. Dover's Powder is a good illustration. This preparation has marked diaphoretic properties, while neither of its constituents, opium or ipecac, when taken separately, exert any powerful action upon the skin. "White Lotion" made by dissolving lead acetate and zinc sulphate in water; "Black Lotion" by adding calomel to a solution of lime and "Yellow Lotion" by adding corrosive sublimate to a solution of lime, are also examples.

V. To AFFORD A CONVENIENT AND AGREE-ABLE FORM OF ADMINISTRATION. Solids, such as pills, capsules and powders are often times to be preferred. Liquid preparations are sometimes more desirable and they have the advantage of being more readily absorbed. The main thing, of course, is that the patient should get the proper remedy indicated by the symptoms; but, at the same time, it is the duty of the prescriber to see that it is no more obnoxious than need be. fact is sometimes lost sight of in veterinary practice where the animal may be compelled to take the medicine, but nothing is lost to the patient nor prescriber, if the medicine is prepared in as palatable a form as possible without sacrificing anything of its pharmacologic action

Due care should be exercised in selecting a vehicle which has little or no medicinal action of its own, or if it has that it will assist or correct the action of the medicines prescribed, and, if practicable, one in which the other ingredients are soluble.

The taste of many bitter substances like quinine, and salty drugs like ammonium chloride, may be made more agreeable by the addition of any of the preparations of glycyrrhiza. Caustic or irritating medicines, whether liquid or solid, must be well diluted before being swallowed.

EXAMPLES OF PRESCRIPTIONS

The following graded scheme for the beginner in prescription writing may be employed; 1st, a prescription written out in Latin is translated into English with the quantities of the ingredients expressed in both the apothecaries and metric systems. 2d. An abbreviated prescription is written out in English, apothecaries and metric. 3d. An abbreviated prescription is written out in Latin; apothecaries and metric. 4th. After a student has studied therapeutics a card is given him bearing the name of a disease, with the basis or principal remedy indicated from which he is to construct a compound prescription suitable for the disease mentioned.

The following prescriptions are given as illustrations of the scheme and serve merely as an outline of the way in which the work may be carried on. The instructor can prepare any number of prescriptions under each grade for the student's exercises.

The various symbols, unusual endings and combinations may be included in such prescriptions for purposes of instruction.

LATIN IN	TO ENGLISH
3	
Plumbi Acetatis	unciam
Zinci Sulphatis	drachmas sex
Aquae ad	l Octarium.
Misce.	
Signa. Fiat lotio alba	t.
ake	
	one ounce 30
of Zinc Sulphate	six drachms 24
of Water to	one pint 480
Mix.	
Signature. Let a whi	te lotion be made.
3	(For horse)
Aloes	drachmas quatuor
Fluidextracti Bella-	
donnae Radicis	semidrachmam,
Zingiberis pulveris	drachmam cum semisse.
Theriacae quantum	sufficit.
Misce.	
Signa. Fiat Bolus.	
'ake	
of Aloes	four drachms 15
of Fluidextract of Bel	-
ladonna Root,	
	one and a half drams 6
of Molasses as much a	as suffices
	quantity)
Mix.	
Signature. Let a bolu	is be made.
B.	(For dog)
Olei Terebinthinae	unciae semissem
Olei Ricini	unciam cum semisse

unum

Ovum

Aquae Ferventis	uncias quatuordecim
Misce et fiat enema.	
Take	
of Oil of Turpentine	half of one ounce
of Castor Oil	one and a half ounces
One Egg	
of hot water	fourteen ounces 42
Mix and let be made i	nto an enema.
R	
	unius
Olei Morrhuae	uncias duas
Spiritus Frumenti	
Acidi Phosphorici Di	-
luti	drachmas tres
Syrupi	drachmas quinque
Aquae Cinnamoni qua	n-
tum sufficiat ad	uncias octo.
Misce et fiat emulsio.	
Take	
Yolk of one egg	
of Cod Liver Oil	two ounces
	one and a half ounces
of Dilute Phosphori	
	three drams
of Syrup	five drams
of Cinnamon Water a	
to (make) eight or	
Mix and let an emulsi	on be made.
R	(For Dog)
Morphinae Sulphatis	granum
Camphorae	
Pulveris Glycyrrhizae	

Sacchari Lactis and	a grana decem						
Misce. Divide in chartulas sex.							
ake							
of Morphine Sulphate	one grain	065					
of Camphor							
of Powdered Liquorice Root							
of Sugar of Milk		6					
Mix. Divide into six	powders.						
2							
Pepsinae	drachmas duas						
Vini albi	uncias septem						
Syrupi	unciam dimidiam						
Fluidextracti Zingi-							
beris	guttas octo						
Misce. Fiat Elixir.							
ike							
1	two drams	8					
of White Wine		210					
of Syrup	half an ounce	15					
of Fluidextract of							
Ginger		15					
Mix. Let an Elixir b	e made.						
,							
Extracti Nucis Vomi							
cae	grani semissem						
Pulveris Scammonii	granum						
Pulveris Aloes							
Pulveris Rhei an	na grani tres q	uartas					
	partes						
Alcoholis	quantum sufficit.						
Misce. Facpilulas ta	_						
4							

Ta ke			
of Extract of Nux			
Vomica	half of	f a grain	032
of Powdered Scam-			
mony	one gr	rain	065
of Powdered Aloes of Powdered Rhubarb			
of each		ourths parts	s
		of a grain	: 1048
of Alcohol as much a			
Mix. Make twelve su			
Examples of abbrevia			
out in English in the	Apoth	necary and	Metric
Systems.			
R.			
Ac. Carbol. Liq. Iodi. Comp.	āā	m xv	
13rd. Todi. Comp.	a a		
Aq. Chloroformi.	q. s.	311	
M. Take			
Carbolic Acid			
	£		
Compound Solution of Iodine of each		15 minims	-1
Chloroform Water suf		15 111111111111111111111111111111111111	I
cient quantity (to ma		2 ounces	60
Mix.	AC)	2 Ounces	
R			
Ac. Sulph. Arom.			
Tr. Opii			
•			
Spts. Camph.	ā ā	3v1	
M.			
Take	oid		
Aromatic Sulphuric A	Ciu		
Tincture of Opium			

Spirits of Camphor of each 6 ounces 180 Mix.

R

Quin. Sulph.		3 <u>1</u>
Pulv. Belladon. Fol. Sod. Salicyl.		31 <u>1</u>
Pulv. Cimicif.	āā	 Žiij

M.

Ft. pulv. No. XII.

Take

Quinine Sulphate	I ounce	30
Powdered Belladonna Leaves	2 ounces	60
Sodium Salicylate		
Powdered Cimicifuga of each	3 ounces	60

Mix. Make into 12 powders.

Examples of Abbreviated prescriptions written out in Latin in the Apothecary and Metric Systems.

R

Quin. Sulph.	31
F. E. Nuc. Vom.	<u></u>
Tr. Capsic.	<u> </u>
Ac. Muriat. Dil.	<u>.</u> 31 vs s

R		
Quininae Sulphatis Fluidextracti Nucis	unciam	3
Vomicae	unciam	3
Tincturae Capsici	uncias tres	9
Acidi Muriatici Diluti	uncias quatuor	
	cum semisse	13
Misce.		
Ŗ		
Pot. Acet.	<u> </u>	
Tr. Digital.	5x	
o .	3v	
Spts. Ether. Nit.	3v	
A q uae q	i. s. 0 j	
M.		
R		
Potassii Acetatis	uncias duas	6
Tincturae Digitalis	drachmas dece	m 4
Spiritus Etheris Nitrosi	uncias quinque	15
Aquae quantum su	fficit Octarius	m 48
D		
Ŗ		
Quin. Sulph.	<u>.</u> 3j	
Pulv. Opii	51j	
Pulv. Ammon. Carb.	<u></u> Zij	
· · · · · · · · · · · · · · · · · · ·	•	
Pulv. Camph.	31	
M. Make 12 powders.		

П	D	Þ	
Į,	Đ.	S	

DC -	
Quinine Sulphatis unciam	30
Pulveris Opii drachmas duas	8
Pulveris Ammonii Car-	
bonatis uncias duas	60
Pulveris Camphorae unciam	30
Misce. Fiant pulveres numero duodecim.	,

The next step in the series is the construction of the prescription according to its indication for a given disorder, the basis being mentioned and allowing the student to fill in the other ingredients. The writer has found the following list serviceable in this connection, due regard being given to incompatibity, form, case endings, etc. The prescriptions may be written out in the ordinary abbreviated form or in Latin in the Apothecary or Metric systems. Any variety of subjects or combinations are available and excellent drill is furnished to the student.

INDICATION.

BASIS.

Gastric Tonic.

Diuretic.

Cardiac Tonic.

Influenza.

Irritable Stomach.

Skin Disease.

Blister.

Hepatic Congestion.

Purgative. Diaphoresis.

Sedative.

Cathartic.

Anodyne Liniment.
Round Worms.

Fever.

Mange. Cough.

Rickets.
Purgative.

Flat Worms.
Indigestion.
Diarrhoea.

Anemia. Rheumatism.

Edema.

Diabetes Insipidus. Catarrhal Fever. General Tonic. Counter Irritant.

Intestinal Antiseptic.

Chorea.

Gentian.

Potassium Nitrate.

Digitalis.

Tr. Nux. Vomica.

Bismuth.

Fowler's Solution.

Cantharides.

Sodium Sulphate, Barium Chloride. Tr. Arnica Root.

Chloral.

Eserine Sulphate.

Tr. Aconite.
Santonin.
Acetanilid.
Sulphur.
Belladonna

Oleum Phosporatum.

Aloes.
Male Fern.
Pepsin.
Tr. Opium.
Iron Sulphate.

Sodium Salicylate. Potassium Acetate.

Iodine.
Quinine.
Nux Vomica.
Aqua Ammonia.

Salol. Arsenic.

TABLE OF THERMOMETRIC EQUIVALENTS

FAHRENHEIT AND CENTIGRADE SCALES To reduce Contigrade degrees to those of Fahrenheit
Multiply by 9, divide by 5, and add 32
To reduce Fahrenheit degrees to those of the Centigrade scale
Subtract 32 multiply by 5, and divide by 9
TABLE OF EQUIVALENTS

°Centi- grade.	°Fahren- heit.	°Centi- grade.	°Fahren- heit.	°Centi- grade.	°Fahren- heit.
25	-13.	6.	42.8	37	98.6
24	—II.2	7	44.6	38	100.4
23	-9.4	8	46.4	39	100.4
-22	—7.6	9	48.2	40	104.
2I	-5.8	10	50.	41	105.8
20	4.	II	51.8	42	107.6
—10	-2.2	12	53.6	43	107.0
—19 —18	-0.4		55.4	43	III.2
—17	1.4	13	57.2	44	111.2
—·16	3.2	15	57·2 59.	45	114.8
—15	5.	16	60.8	47	114.6
—15 —14	6.8	17	62.6	47	118.4
	8.6	18	64.4	49	120.2
—13 —12			66.2	}	120.2
	10.4 12.2	19	68.	50	
—10	12.2	20	6 9. 8	51	123.8
		21		52	125.6
<u>-</u> 9 8	15.8	22	71.6	53	127.4
-0	17.6	23	73.4	54	129.2
 7 6	19.4	24	75.2	55	131.
0	21.2	25	77.	56	132.8
-5 -4 -3	23.	26	78.8	57	134.6
4	24.8	27	80.6	58	136.4
3	26.6 28.4	28	82.4	59	138.2
-2		29	84.2	60	140.
—ı	30.2	30 .	86.	61	141.8
_	32	31	87.8	62	143.6
I	33.8	32	89.6	63	145.4
2	35.6	33	91.4	64	147.2
3	37.4	34	93.2	65	149.
4	39.2	35	95.	66	150.8
5	41.	36	96.8	67	152.6

°Centigrade.	°Fahren- heit.	°Centi- grade.	°Fahren- heit.	°Centi- grade.	°Fahren- heit.
- 68	154.4	85	185.	102	215.6
69	156.2	86	186.8	103	217.4
70	158.	87	188.6	104	219.2
71	159.8	8 8	190.4	105	221.
72	16 1.6	89	192.2	106	222.8
73	163.4	90	194.	107	224.6
74	165.2	91	195.8	108	226.4
75	167.	. 92	197.6	109	228.2
76	168.8	93	199.4	IIO	230.
77	170.6	94	201.2	III	231.8
78	172.4	95	203.	II2	233.6
79	174.2	96	204.8	113	235.4
80	176.	97	206.6	114	237.2
81	177.8	98	208.4	115	239.
82	179.6	99 .	210.2	116	240.8
83	181.4	100	212	117	242.6
84	183.2	IOI	213.8	118	244.4

The following is a list of official deliquescent and efflorescent salts:

DELIQUESCENT SALTS EFFLORESCENT SALTS

Ammonii Iodidum Alumen (slightly)
Nitras Ammonii Carbonas

Valerianas Phosphas

Auri Chloridum Antim. et Potass. Tartras

Calcii Chloridum (slightly). Lithii Citras Cupri Acetas Bromidum Sulphas

Salicylas Magnesii Sulphas

Magnesia Citras (slightly)

Potassa (caustic) Potassii et Sodii Tartras

Cum Calce (slightly)

Potassii Acetas Ferrocyanidum

Carbonas (slightly)
Citras Onininae Bisu

Citras Quininae Bisulphas
Cyanidum Sulphas (after a time)

Hypophosphis Soda (caustic) Sulphis Sodii Acetas

Sulphis Sodii Acetas
Tartras Arsenas (slightly)

Quinolin salts (except the Benzoas

Tartrate) Boras (slightly)
Sodii Hypophosphis Carbonas

Iodidum Hyposulphis
Zinci Bromidum Phosphas

Chloridum Santoninas (slightly)

Iodidum Sulphas Sulphis

Strychninae Sulphas

Zinci Acetas Sulphas

For the various symbols, Latin words and phrases with their abbreviations see the following pages.

LATIN WORDS AND PHRASES WITH THEIR ABBRE-VIATIONS AND ENGLISH EQUIVALENTS

WORDS OR PHRASES CONTRACTION ENG. EQUIVALENTS

		~
Abdomen	_Abd	The belly.
Ad		
Adde	_Add	_Add.
Addantur	_Add	Let(them)be added
Addendus	_Add	To be added.
Addendo	_Add	_By adding.
		To be administered.
Adjacens	_Adjac	Adjacent.
Ad libitum		
Admove	Admov.	_Apply.
		Let (it) be applied.
Adversum	_Adv	_Against.
Aliquot		
Alter	_A1t	The other.
		Every other hour.
Amplus		
Ampulla	Ampul.	A large bottle.
Ana		
Aqua		
Aqua bulliens		
Aqua communis.		
Aqua fervens	_	
Aqua fluviatilis	Aq. fluv	River water.
Aqua fontalis _		
Aqua marina		
Aqua nivalis	Aq. niv.	Snow water.
Aqua pluvialis		
Aut		
Balneum vapori	sB. V	Vapor bath.
Balsamum		

Bene	Bene	Well.	
Bibe	Bib	_Drink (thou).	
Biduum	_Bid	Two days.	
Bis	_Bis	_Twice.	
Bis in die, or die.	s Bis, die	Twice a day.	
·Bolus			
Bulliat or Bul			
ant	Bull	_Let boil.	
Butyrum	But	Butter.	
Cæruleus		Blue.	
Calefactus	Calef	Warmed.	
Саре			
Capiat			
Capsula			
Caute	_Caute	Cautiously.	
Charta	Chart	Paper.	
Chartula			
Cibus			
Cochlear, or Coch			
leare	Coch	_A spoonful.	
Cochleare am			
plum	Coch. amp	_A dessertspoonful.	
Cochleare mag	·-		
num	Coch. mag	_A tablespoonful.	
Cochlear par-			
vum	Coch. parv	_A teaspoonful.	
Cola			
Colatus			
Collutorium			
Collyrium			
		Let it be colored.	
Compositus			
Concisus			
Congius			

Conserva	Cons	A conserve, also,	
		Keep (thou).	
Contusus	Contus.	Bruised.	
Cor, Cordis	. Cor	_The heart.	
Cortex, corticis	_Cort	The bark.	
Coxa			
Cras, crastinus_	_Crast	_To-morrow.	
Cujus, cujus-libe	tCuj	Of which, of any.	
Cum			
Cyathus, vel Cya	t-		
thus vinarius_	_Cyath, C.vina	rA wine-glass.	
Da, detur	D., det	Give, let be given.	
De	De	Of or from.	
Debitus			
Decanta	Dec	. Pour off.	
Decem, decimus	Decem.	Ten, the tenth.	
Decoctum	Decoct	A decoction.	
Decubitus			
De die in diem_	_De d. in d.	From day to day.	
Dein vel Deinde	Dein	Thereupon.	
Deglutiatur	Deglut	Let be swallowed.	
Dentur tales dos		Let 4 such doses be	
es No. iv			
Dexter, Dextra			
Diebis alternis_	_Dieb. alt	Every other day.	
Dilue, Dilutus	Dil	Dilute (thou), Di-	
		luted.	
Dimidius	Dim	One-half.	
Dividatur in		Let it be divided	
partes æquales.	D. in p. aeq	_ into equal parts.	
Dividen dus-a-			
um	Divid.	To be divided.	
Dolor	Dolor	Pain.	
Donec	Donec	. Until.	

Dosis	.D	.A dose.	
Drachma	Dr. or 5	A dram (60 grains).	
Eadem (fem.)	Ead	.The same.	
Ejusdem			
Electuarium			
Emesis	Emesis	Vomiting.	
Enema	En	A clyster or enema.	
Et	Et	And.	
Extende			
Extractum	Extr	An Extract.	
Extrahe			
Fac	F	Make.	
Fac pilulas duo			
		Make twelve pills.	
Farina			
Febris			
Fervens			
Fiat	Ft	Let be made(sing.)	
Fiant	.Ft	Let be made (plu.)	
Filtra	Filtra	Filter (thou).	
Filtram, filtrun			
Fluidus	Fluid., Fl	_Liquid.	
Formula		A prescription.	
Gargarysma	Garg.	A gargle.	
Gradation	Grad.	By degrees, gradu-	
		ally.	
Granum, Grana	_Gr	Grain, Grains.	
Gratus	Grat.	_Pleasant.	
Gutta, Gutta	Gtt	A drop. Drops.	
Guttatim	Guttat	_By drops.	
Haustus	Haust.	_A draught.	
Hebdomada			
Herbarum recen-			
tium	Herb. recent.	_Of fresh herbs.	

Hic, Haec, Hoc	Hic, hæc, hoc	_This
Hirudo	_Hirudo	_A leech
Hora	Н	_An hour.
Idem	_Id	The same.
Imprimis	.Impr	_First.
Incide, Incisus_	_Inc	Cut (thou), Being
		cut.
In dies	_Ind	Daily, or from day
		to day.
Infunde	Infun	Pour in.
Infusum	_Infus	An infusion.
Injection		_An injection.
In pulmento		
Instar	_Instar	As big as, the size of
Inter		
Internus,-a,-um	_Int	Inner or Internal.
Intus		
Jam	_Jam	Now.
Jam Juxta Lac, Lactis	_Juxta	Near to.
Juxta Lac, Lactis	_Juxta _Lac	Near to.
Juxta Lac, Lactis	Juxta Lac Lag	Near to. Milk, of Milk. A flask or bottle.
Juxta Lac, Lactis Lagena	Juxta Lac Lag Lang	Near to. Milk, of Milk. A flask or bottle. Faintness.
Lac, Lactis Lagena Languor	Lac _Lag _Lang _Lb., or th	Near to. Milk, of Milk. A flask or bottle. Faintness. A pound.
Iuxta Lac, Lactis Lagena Languor Libra	_JuxtaLacLagLangLb., or tbLinim	Near to. Milk, of Milk. A flask or bottle. Faintness. A pound. A liniment.
IuxtaLac, Lactis Lagena Languor Libra Linimentum		Near to. Milk, of Milk. A flask or bottle. Faintness. A pound. A liniment.
Juxta	Juxta Lac. Lag. Lang. Lb., or th Linim. Lint Liq.	Near to. Milk, of Milk. A flask or bottle. Faintness. A pound. A liniment. Lint. A solution.
Juxta	Juxta Lac. Lag. Lang. Lb., or lb Linim. Lint Liq. Lot.	Near to. Milk, of Milk. A flask or bottle. Faintness. A pound. A liniment. Lint. A solution. A lotion.
Juxta	Juxta Lac. Lag. Lang. Lb., or lb Linim. Lint Liq. Lot. Mac.	Near to. Milk, of Milk. A flask or bottle. Faintness. A pound. A liniment. Lint. A solution. A lotion. Macerate.
Juxta	Juxta Lac. Lag. Lang. Lb., or tb Linim. Lint Liq. Lot. Mac. Mag.	Near to. Milk, of Milk. A flask or bottle. Faintness. A pound. A liniment. Lint. A solution. Macerate. Large.
Juxta	Juxta Lac. Lag. Lag. Lang. Lb., or lb Linim. Lint Liq. Lot. Mac. Mag. Mane	Near to. Milk, of Milk. A flask or bottle. Faintness. A pound. A liniment. Lint. A solution. Macerate. Large. In the morning
Juxta	Juxta Lac. Lag. Lag. Lb., or lb Linim. Lint Liq. Lot. Mac. Mag. Mane M. or Man.	Near to. Milk, of Milk. A flask or bottle. Faintness. A pound. A liniment. Lint. A solution. Macerate. Large. In the morning A handful.
Juxta Lac, Lactis Lagena Languor Libra Linimentum Liquor Lotio Macera Magnus Mane Manipulus	Juxta Lac. Lag. Lag. Lang. Lb., or lb Linim. Lint Liq. Lot. Mac. Mag. Mane Manus	Near to. Milk, of Milk. A flask or bottle. Faintness. A pound. A liniment. Lint. A solution. Macerate. Large. In the morning A handful.

Matutinis	Matut.	_In the morning.
Medius	Med	Middle.
Mensura	Mensu.	By Measure.
		Crumb of Bread.
Minimum	M. or min	A minim.
Minutum		A minute.
Misce	M	Mix.
Mistura		
Mitte	Mit	Send.
Modo præsc <mark>ript</mark> o	Mod. præsc	In the manner prescribed.
		In the manner directed.
		In the usual man- ner.
Mortarium, i	Mort	A mortar.
Necnon	Necn.	_Also.
		Do not deliver with-
		out the money.
Nisi		
Non		
Non repetatur	Non repetat.	Let it not be re-
		peated.
Nox. Noctis	Noc, noct.	peated. The night, of the night.
		The night, of the
		The night, of the night. The nape of the neck.
N ucha N umero	No	The night, of the night. The nape of the neck. In number.
Nucha Numero Octarius	No	The night, of the night. The nape of the neck. In number. A pint (5xvj).
N ucha N umero	No	The night, of the night. The nape of the neck. In number. A pint (5xvj).
Nucha Numero Octarius Octavus	No O. Oct	The night, of the night. The nape of the neck. In number. A pint (5xvj). Eight.
Nucha Numero Octarius Octavus Octo Octo Omni hori	No O. Oct Octo Omn. hor	The night, of the night. The nape of the neck. In number. A pint (5xvj). Eight.

Pars, Partis	_Par. Pt,	_A part, of a part.
Partes æquales_	_Pt. æq	Equal parts.
		_An infant. A par-
		vule.
Parvus		_ Little.
Pastillus	Pastil.	A pastille.
Pediluvium		
		A camel's-hair pen-
elinum		cil or brush.
Per	Per	Through, By.
		A vial or bottle.
		The bottle having
tate	P. P. A	been first shaken.
Pilula	_Pil	_ A pill.
Pocillum		
Poculum		
		_By weight.
Pondus civile	_P. civ	Civil weight (avoir-
Pondus medicin	!-	Medicinal (apothe-
ale		dupois). Medicinal (apothecaries') Weight.
Post cibo	Post cib	_After eating.
Potus		
Præparata	Præp.	_Prepared.
Primus		
Pro		
Pro re nata	P. r. n.	_Occasionally, ac-
		cording to cir-
		cumstances.
Pulvis	Pulv.	_A powder.
Quadrans-antis		
		_As much as you
		please.

Quantum suffica	tQ. s	As much as is suf-
		ficient.
Quaque	.Qq	Each, or Every.
Quartus	Quart	Fourth.
Quatuor	Quat	Four.
Quibus		
Quinque	Quinq	_Five.
Quintus		
Quoque	Q. Q	_Also.
Quorum		
Quotidie		
Ratio		
Recens,-entis		
Recibe	R	Take.
Reductus in pul-	Red. in pulv.	Let it be reduced
verem		to powder.
Reliquum	Reliq	_Remaining.
Repetatur	_Rept	Let it be repeated.
Retinere	Retin	_To keep.
Ruber, rubra, ru	<i>t</i> -	
brum	_Rub	_Red, ruddy.
Saltem	_Saltem	_At least.
Saltim	_Saltim	By leaps.
Saturatus-a-um	_Sat	_Saturated.
Scatula	_Scat	_A box.
Scilicet	Scil	Namely.
Scrupulum	Scrup. or 9_	A scruple (20 grs.).
Secundem artem	_S. A	_According to art.
Secundus	_Secund	_Second.
Semel	_Semel	_Once.
Semis or semissis	Ss	_A half.
Septem	_Sept	Seven.
Septimana		
		.An ounce and a
		half.

Sesquihora		An hour and a half
Sex	Sex	_Six.
Si	Si	_If.
Signa	Sig	Write, or Mark
		(thou).
Signatur nomin	ie	Let it be writter
proprio	_Sig.nom.proj	o. with its proper
	,	name.
Simul	_Simul	_Together.
Sine		
Singulorum		
Si opus sit		
Sit		
Solus		
Solve		
Somnus	Somnus	_Sleep.
		Rectified spirit of
tificatus	_Spt. vin. rect	wine (alcohol).
Spiritus vini to	_	
	Spt. vin. ten.	_Proofspirit.
Statim	_Stat	_Immediately.
		Let it (or them)
		stand.
Subinde	_Subind	Frequently.
		Let him take one
		414 .4 1
		like this.
Sume		
Supra	_Supra	_Take. _Above.
Supra	_Supra	_Take. _Above.
	_Supra _Tab	_Take. _Above. _A lozenge.
Supra Tabella Talis	_Supra _Tab _Tal	_Take. _Above. _A lozenge.
Supra Tabella Talis	_Supra _Tab _Tal	_Take. _Above. _A lozenge. _Such a one.
Supra Tabella Talis	Supra Tab Tal Ter	_Take. _Above. _A lozenge. _Such a one. _Thrice, or Three

Tero	Tero	I rub.	
Tere simul	Tere sim.	Rub together.	
Tertius	Tert	Third.	
Tinctura	Tinct. or Tr.	Tincture.	
Tres	Tres	Three.	
Triduum	Trid	Three days.	
Tritura	Trit	Triturate.	
Troschiscus, Tro	-		
chisin	Troch.	A lozenge or troche	
Tussis			
Ultimo (or Ulti	-		
ma)præscriptu	sUlt. præsc	The last ordered.	
Una	Una	Together.	
Uncia	.Unc. or 3	An ounce.	
Ut dictum	.Ut dict	As directed.	
Vas vitreum	Vas vit	A glass vessel.	
Vehiculum	Vehic	A vehicle or men-	
		strum.	
Vel	Ve1	Or.	
Vesper-eris	Vesp	The evening.	
Vices	Vic	Turns.	
Vinum	Vin	_Wine.	
Vires	Vir	Strength.	
Vitellus	Vitel	Yolk.	
Vitreum, Vit-			
rum	Vitr	.Glass.	
Volatilis, is, Vol-			
atile	Volat.	Volatile.	

INCOMPATIBLITY.

In prescription writing, incompatability may be defined as an interference, with each other, of the constituents of a mixture in a way not intended by the prescriber. Sometimes there is *intentional* incompatibility by the prescriber as in the case of white lotion, p. 88.

There are three types of incompatibility: Chemic, Pharmaceutic and Physiologic.

Chemic Incompatibility occurs when a new chemic compound results. In general it may be recognized in one of three ways: I. By precipitation-the formation of an insoluble compound. By effervescence or explosion-evolution of gas. 3. By a change in color. Another form may be referred to, because it is not easy to recognize any change and therefore more dangerous. A new product may be formed, possibly of a poisonous nature and remain in solution without in the least changing the appearance of the mixture. The avoidance of this form of incompatibility rests upon a knowledge of the ordinary chemic reactions, and the knowledge cannot be too greatly emphasized. Chemic incompatibility is not always evident immediately, some little time may elapse before changes occur. A general rule is that substances are incompatible if they are used in testing for each other or if they form antidotes.

Pharmaceutic Incompatibility results in the production of an unsightly appearance due to physical changes. It is, therefore, largely a question of solvents and solubility, and often occurs when solids or liquids are added to solutions, thereby changing their densities. It occurs when there is

a combination of such substances as are physically incapable of mixing; thus, if spirit of nitrous ether be added to tincture of guaicum a gelatinous mass will result, or if resinous tinctures be added to aqueous solutions the resins will separate.

Physiologic or Therapeutic Incompatibility depends upon the antagonistic or opposite physilogic or therapeutic actions of the drugs, so that one drug may weaken or neutralize the action of another with regard to its effects upon the tissues. Atropine and pilocarpine are examples of antagonists therapeutically. No two drugs, however, are exactly opposed to each other throughout their whole range of action, and more or less latitude in this respect may be permitted in prescribing.

Incompatibility must always be kept in mind in writing a prescription. It is best avoided, as a rule, by not attempting to combine too many drugs. Some general principles which it is well to keep in mind may be formulated as follows:

Acids should not be added to alkalies, alkaline salts or vegetable acids on account of decomposition and chemic change.

Solutions of alkaloids are incompatible with tannic acid, alkalies, alkaline salts, iodides and bromides on account of precipitation.

Glucosides (Digitalin, Salicin, etc.) are decomposed by acids.

A mixture of salts in solution will decompose if either an insoluble compound or double salt can be formed.

Chloral is incompatible with alkaline solutions, chloroform is produced.

Potassium chlorate, nitrate or permanganate liberate oxygen and should not be mixed with readily oxidizable substances, such as charcoal, sugar, sulphur, glycerin, carbolic acid, iodine, turpentine, and organic materials, lest explosive compounds be formed.

Lime water precipitates mercury salts. Calomel and prussic acid form the poisonous mercuric cyanide.

Calomel should not be combined with nitrohydrochloric acid as corrosive sublimate may be produced. Both calomel and antipyrin are incompatible with sweet spirit of nitre.

Liquid iron preparations are incompatible with fluid preparations of the vegetable bitters (except calumba and quassia), because the tannic acid in them forms a precipitate.

Considerable quantities of acid are incompatible with tinctures, because ethers are formed.

Water causes precipitates with tinctures containing resins.

Gum arabic is incompatible with lead and iron salts and mineral acids.

Solutions of potassium chlorate and iodide unite to form a poisonous compound.

For convenient reference, the following list of the more important incompatibles, taken from Merck, is given.

ACACIA—mineral acids; alcohol; ammonia; antimony and potassium tartrate; borax (unless syrup or glycerin is present); ether; ferric salts (not if excess of acid present); lead subacetate (not acetate); lead-water; mercuric chloride (concent. sol.); potassium bitartrate and tartrate;

silicates; syrup squill; tinct. guaiac (blue color), tinctures (alcoholic and ethereal).

ACETANILID—amyl nitrite; bromine and bromides of alkalies; carbolic acid; chloral hydrate; iodides of alkalies: nitrites; piperazine; potassium hydroxide; pyrocatechin; resorcin; sodium hydroxide; spirit nitrous ether; thymol.

ACIDS—alcohol (with strong acids); alkalies; alkaloids; benzoates and borates (with strong acids); bismuth and ammonium citrate; bicarbonates; bromides (of weak acids); carbonates; chlorides (of weak acids); iodides (of weak bases); metallic salts (with organic acids); pancreatin; potassium and sodium tartrate; potassium tartrate; salicylates; silicates.

ACID, ARSENOUS—copper sulphate; decoction cinchona; dialyzed iron; ferric hydrate; lime water; salts of aluminium; antimony, barium, calcium, chromium, copper, lead, magnesium, mercury, silver, zinc; potassium iodide; tannic acid; vegetable astringent decoctions and infusions.

ACID, BENZOIC—free bromine or chlorine; ferric salts; hydrogen dioxide with sulphuric acid; urethane.

ACID, BORIC—alkaline hydrates; alkaline earths (hydrates); carbonates. See also Borates.

ACID, CARBOLIC—acetanilid; albumin; antipyrin; antisepsin; bromal hydrate; bromine water; butyl-chloral hydrate; camphor; camphor monobromated; chloral hydrate; collodion; diuretin; exalgin; ferric salts; gelatin (in dilute solution); hydrogen dioxide; lead acetate; menthol; naphtalin; naphtol; nitric acid; phen-

acetin; potassium permanganate; pyrogallol; resorcin; salol; sodium phosphate; thymol; urethane; terpin hydrate.

ACID, CHROMIC—alcohol; bromides; chlorides; ether; glycerin; hypophosphites; iodides; oxalates; sulphides; sulphites; tartrates. See also chromates.

ACID, CITRIC—acetates; acids (mineral); carbonates; potassium tartrate; sulphides. See also citrates.

ACID, GALLIC—arsenic acid; carbonates; copper salts; ferric salts (if excess of acid absent); gold salts; lead acetate; iodine; lime water; nitric acid; opium in solution; potassium permanganate; silver salts; sodium bicarbonate; tartar emetic.

ACID, HYDROCHLORIC—alkalies; bromates; carbonates; chlorates; chromates; lead salts; mercurous salts; oxides; permanganates; silver salts; tartar emetic. See also chlorides.

ACID, HYDROCYANIC, DILUTE—acids (mineral); antimony oxides; copper and iron salts; mercury oxides; silver nitrate; sulphides. See also cyanides.

ACID, LACTIC—albumin; milk; oxidizers generally.

ACID, NITRIC—alcohol, alkalies; carbonates; ferrous sulphate; lead acetate; oils (essential); sulphides.

ACID, OSMIC—all organic or oxidizable substances; iodides.

ACID, OXALIC—arsenates; gold salts; metallic salts generally; (all but those of aluminium, chromium and magnesium).

ACID, PHOSPHORIC, META—albumin; ferric chloride; gelatin; lead acetate; silver nitrate.

ACID, PHOSPHORIC, ORTHO—chlorides of barium, calcium and magnesium (in ammoniacal solutions); lead acetate; silver nitrate; soluble iron phosphate); and pyrophosphate.

ACID, PICRIC—albumin; alkaloids; gelatin; oxidizable substances; piperazine.

ACID, SALICYLIC—Ferric salts; exalgin; lead acetate; lime water; potassium iodide; quinine salts; sodium phosphate; spirit nitrous ether; urethane

ACID, SULPHURIC—alcohol; barium and calcium salts; carbonates; hypophosphorous acid; metals; oils (essential); lead, mercurous, silver and strontium salts; organic substances; sulphides; vegetable astringent infusions.

ACID, TANNIC—albumin; alkaloids; amyl nitrite; antipyrin; arsenic acid; bromine; calcium chloride (concent. solution); chlorine, chromic acid; ferric salts; gelatin; glucosides; gluten; hydrochloric acid; iodine: iodoform; lime water; nitric acid; permanganates; piperazine; salts of antimony, bismuth, chromium, copper, gold, lead, mercury and silver; spirit nitrous ether; potassium chlorate or other oxidizers; sulphuric acid; potassium bichromate.

ACID, TARTARIC—alkalies; calcium salts; carbonates; lead salts; lime water; mercury salts; vegetable astringents.

ACONITINE—hot acids, alkalies or water. Antagonists: atropine; digitalis; morphine; scoparin; strychnine. See also alkaloids.

ALBUMIN—acetic acid (with heat); alcohol;

alum; ammonium sulphate; camphor; carbolic acid; coniine; collodion; copper sulphate; ether; ferric chloride; heat; hydrogen peroxide; lactic acid; mercuric chloride; metallic salts; metaphosphoric acid; mineral acids; picric acid; tannic acid; thymol; volatile oils.

ALCOHOL—acacia; albumin; bromine; chlorine; chromic acid; inorganic salts; mercuric chloride; mineral acids; potassium permanganate.

Antagonists: Cocaine: strychnine.

ALKALOIDS—alkalies; alkali carbonates and bicarbonates; ammonium chloride; benzoates; bichromates; bromides; borax; cyanides; gold chloride; ichthyol; iodides; mercuric chloride; oxalic acid; picric acid; piperazine; potassiomercuric iodide (not if acacia present); oxidizers; sodium phosphate; tannic acid; salicylates.

ALOES-mercury nitrate; silver nitrate.

ALOIN—Alkali hydrates; bromine water; ferric chloride; lead acetate, basic (not neutral); tannic acid.

ALUM—alkali hydrates; borax; carbonates; galls; kino; lead acetate; lime water; magnesia and magnesium carbonate; mercury salts; phosphates; tartaric acid; potassium chlorate.

AMMONIUM CARBONATE—acid salts; alkalies; alum; calomel; copper, iron, lead and silver salts; magnesia; magnesium sulphate; mercuric chloride; potassium bitartrate and bisulphate; silver salts; tartar emetic; zinc sulphate. See also carbonates.

AMYL NITRITE—alcohol; antipyrin; caustic potassa. *Antagonists*: chloroform, cocaine; morphine; strychnine.

ANGUSTURA—acids (mineral); cinchona infusion; copper sulphate; galls infusion; ferrous sulphate; lead acetate; mercuric chloride; silver nitrate; catechu infusion; zinc sulphate.

ANTHEMIS — cinchona infusion; gelatin; iron salts; lead salts; mercuric chloride; silver nitrate.

ANTIMONY AND POTASSIUM TARTRATE—acacia; acids (mineral); albumin; alcohol; alkalies; ammonia; ammonium carbonate; antipyrin; bicarbonates; calcium chloride; carbonates; gelatin; lead salts; lime water; mercuric chloride; metallic salts; sulphides; tannic acid; vegetable decoctions and infusions.

ANTIMONY SULPHIDE—chlorates and other oxidizers; nitric acid.

ANTIPURIN — alum; ammonia water; amyl nitrite; benzoates; beta naphtol; bromine; carbolic acid; calomel; chloral hydrate; copper sulphate; chromic acid; cinchona alkaloids; euphorin; ferric chloride; ferrous sulphate; hydrocyanic acid; iodides; iodine; lead subacetate; mercuric chloride; potassium permanganate; pyrocatechin; pyrogallol; resorcin; sodium bicarbonate; sodium salicylate; solution arsenic and mercury iodide; spirit nitrous ether; syrup ferrous iodide; tartar emetic; tannic acid; thymol; urethane; infusions of catechu, cinchona, rose leaves and uva ursi; tinctures of catechu, cinchona, hamamelis, iodine and rhubarb; orthoform.

APOMORPHINE HYDROCHLORATE—alkali hydrates and carbonates; alkaloidal reagents generally; ferric chloride; iodides; lime water; permanganates; picric acid; silver nitrate; tannic

acid. Antagonists: chloral hydrate; chloroform; strychnine.

ARISTOL—Water; substances having affinity for iodine.

ARNICA—acids (mineral); ferrous sulphate, lead acetate; zinc sulphate.

ARSENATES — hypophosphites; iodides and sulphides in acid solutions; salts of aluminium, antimony, barium, calcium, chromium; copper, lead, mercury, silver, and zinc in neutral solutions; tannic acid; iron salts.

ARSENIC-See acid arsenous.

ARSENIC IODIDE—alkaloids generally.

ARSENITES—dialyzed iron; ferric hydrate; hypophosphorus acid and hypophosphites (in acid solution); salts of heavy metals; tannic acid; copper sulphate; potassium iodide; silver nitrate; sulphides; vegetable astringent decoctions and infusions

ATROPINE-See belladonna.

BALSAM PERU—ferric salts; iodoform; hydrogen peroxide.

BARIUM SALTS—carbonates; chromates; oxalic acid or oxalates; phosphoric acid or phosphates; sulphuric acid or sulphates; tannic acid; tartaric acid or tartrates

BELLADONNA—alkaloidal precipitants; alkali hydrates or acids with heat; tannic acid; vegetable decoctions or infusions. *Antagonists*: aconitine; bromal hydrate; chloral hydrate; hydrocyanic acid; jaborandi; morphine; muscarine; physostigmine; phytolacca; pilocarpine; quinine.

BENZALDEHYDE—ammonia water; caustic potassa; phenol, resorcin or pyrocatechin in absence of hydrochloric acid; sodium bisulphite.

BENZOATES—acids; ferric salts.

BENZOIN—acids; alkalies; water.

BERBERINE SALTS—alkaloidal precipitants, soluble tartrates.

BICARBONATES—like carbonates.

BISMUTH AND AMMONIUM CITRATE—acids.

BISMUTH SUBGALLATE—acids.

BISMUTH SUBNITRATE—alkali carbonates and hydrates; calomel; hypophosphites; gallic acid; iodides; salicylic acid; sulphur; tannic acid.

BORATES — acids (mineral); alkaloidal salts; metallic salts.

BROMAL HYDRATE—acetamide; borneol; carbolic acid; exalgin; menthol; pyrocatechin; urea; urethane. *Antagonist:* Atropine.

BROMIDES—acids; alkaloids; antimony salts; bismuth salts; chlorine water; chlorates (in acid solution); chromates (in acid solution); copper, lead, mercurous, and silver salts; spirit nitrous ether (if acid); nitric acid.

BROMINE WATER—alkali hydrates; arsenites; ferrous salts; hypophosphites; hydriodic acid; mercurous salts.

BROMOFORM—caustic alkalies; aqueous liquids. BUCHU—ferrous sulphate; infusion galls.

BUTYL-CHLORAL HYDRATE (Croton-chloral Hydrate)—acetamide; alkalies; camphor; carbolic acid; exalgin; menthol; piperazine; pyrocatechin; thymol; urethane.

CADMIUM SALTS (Soluble)—alkalies, carbonates; chromates; phospates; sulphides.

CAFFEINE—like alkaloids in general. Antagonists: chloral hydrate; cocaine; morphine; physostigmine.

CALCIUM CARBONATE — acids; alum; ammonium chloride.

CALCIUM SALTS (Soluble)—alkalies; carbonates; citrates (with heat); oxalates; phosphates; tartrates.

CALOMEL—See mercurous chloride.

CALUMBA—acids (mineral); ammonia; cinchona infusion; galls infusion; ferric salts; lead acetate; lime water; mercuric chloride; silver nitrate; tartar emetic.

CAMPHOR — butyl-chloral hydrate; carbolic acid; chloral hydrate; chromic acid; dichloracetic acid; euphorin; hydrochloric acid; menthol; monochloracetic acid; naphtol; potassium permanganate; pyrocatechin; pyrogallol; resorcin; salol; salicylic acid; thymol; urethane; water.

CAMPHOR, MONOBROMATED—carbolic acid; chloral hydrate; euphorin; pyrocatechin; salol; thymol.

Cantharidin—copper sulphate; lead acetate; mercuric chloride; silver nitrate.

CAPSICUM—alum; ammonia; carbonates (alkaline); copper sulphate; ferrous sulphate; galls infusion; lead acetate; mercuric chloride; silver nitrate; zinc sulphate.

CARBONATES—acids; acid salts; alkaloidal salts; bismuth subnitrate; salts of aluminium, antimony, barium, bismuth, cadmium, calcium, chromium, cobalt, copper, iron (ic and ous), lead, manganese, mercury (ic and ous), nickel, silver, strontium and zinc; urethane.

CARDAMON—acids; ferrous sulphate; mercuric chloride.

CATECHU-acids (mineral); albumin; alkalies;

calcium salts; cinchona infusion; ferric and ferrous salts; gelatin; lime water; mercuric chloride; zinc sulphate.

CHARCOAL—all oxidizers (potassium chlorate,

potassium permanganate, etc.).

CHLORAL HYDRATE—acetanilid; alcohol; alkalies; ammonium salts; borax; borneol; camphor; camphor monobromated; carbolic acid; diuretin; euphorin; exalgin; glycerin (with heat); lead acetate; menthol; mercuric oxide and nitrate; phenacetin; piperazine; potassium cyanide; potassium permanganate; potassium iodide; pyrocatechin; quinine sulphate; salol; sodium phosphate; thymol; urea; urethane. Antagonists: ammonium chloride; atropine; brucine; carbolic acid; caffeine; cocaine; codeine; digitalis; physostigmine; picrotoxin; strychnine, thebaine.

CHLORATES—ammonium picrate; arsenites or bromides (in acid solution); carbolic acid; charcoal; cyanides; ferrous salts (in acid solution); gallic acid; glycerin; honey; hydrochloric acid; hypophosphites; hyposulphites; iodides (in acid solution); iodine; iron (reduced); lycopodium; mercurous salts (in acid solution); oxalic acid; phosphorus (amorphous); sulphides in acid solution; sulphuric acid; salicylic acid; shellac; starch; sugar; sulphides; sulphites.

CHLORIDES—hydrogen peroxide; lead, mercurous, and silver salts; nitric and sulphuric acids.

CHLORINATED LIME—fats; glycerine; iodides; oils.

CHLORINE WATER—alkalies; ammonium salts; arsenous salts; bromides; ferrous salts; hypophos-

phites; iodides; lead salts; lime water; mercurous salts; oxalic acid; silver salts.

CHLOROFORM—caustic alkalies aqueous fluids. Antagonist: amyl nitrite.

CHROMATES—barium, bismuth, lead, manganese, mercury, silver, and strontium salts.

CINCHONA—acids (mineral); alkalies; carbonates; alkaloidal precipitants; ferric and ferrous salts; lead acetate; lime water; magnesia; mercuric chloride; rhubarb infusion; silver nitrate; tartar emetic; zinc sulphate.

CITRATES—alcohol; lead acetate; potassium permanganate (in acid solution); silver nitrate.

COCAINE—acids (concent.); alkaloidal precipitants; alkalies; caustic alkalies; hot water. Cocaine hydrochlorate is incompatible with calomel, chloroform water, mercuric oxide and silver nitrate. *Antagonists:* alcohol; amyl nitrite; caffeine; chloral hydrate; digitalis; morphine.

CODEINE — alkalies; alkaloidal precipitants; ammonium bromide or chloride; ammonium valerianate; copper, iron, and lead salts. *Antagonist*: chloral hydrate.

COLCHICINE—acids; alkalies; alkaloidal precipitants.

COLLODION—carbolic acid; aqueous fluids.

COLOCYNTH—alkalies; ferrous sulphate; lead sulphate; lime water; mercuric chloride; silver nitrate.

CONIINE—albumin; aluminium salts; alkaloidal precipitants; chromic acid; copper, iron, manganese, and zinc salts.

CONIUM—acids (vegetable); alkalies; tannic acid.

COPAIBA—acids (mineral); caustic alkalies; both calcium hydrate and magnesia solidify it; water.

COPPER AMMONIATED—acids; alkalies; lime water.

COPPER SULPHATE—alkalies; ammonium acetate; arsenites; arsenous acid; calcium chloride; carbonates; ferric acetate; glucose (in alk. sol.); iodides; lead acetate; lime water; mercuric chloride; potassium tartrate; phosphates; silver nitrate; sodium borate; vegetable astringent infusions and tinctures.

CORROSIVE SUBLIMATE—See mercuric chloride. CREOSOTE (BEECHWOOD)—acacia; albumin; cupric, ferric, gold, and silver salts; nitric acid; oxidizers.

CYANIDES—acids; alkaloids; chloral hydrate; iodine, lead, mercurous, and silver salts; permanganates; potassium chlorate; potassium nitrate. *Antagonist:* atropine.

DECOCTIONS—like infusions.

DIGITALIS—acids; alkalies; alkaloidal precipitants; cinchona infusion; ferrous sulphate; lead acetate; tannic acid and other vegetable astringents. Antagonists: aconite; chloral hydrate; cocaine; glonoin; muscarine; saponin; scoparin; strychnine.

DIURETIN—acids; bicarbonates; borates; carbolic acid; chloral hydrate; ferric chloride; phosphates; phosphoric acid. Also those of salicylates.

ERGOT—alkaloidal precipitants; tannic acid.

ETHER-bromine; chromic acid.

ETHER ACETIC — alkalies; chlorine water; chromic acid; water.

ETHYL BROMIDE—alkalies; ammonia water. EUCALYPTOL—potassium permanganate.

EXALGIN—bromal hydrate; butyl-chloral hydrate; carbolic acid; chloral hydrate; euphorin; menthol; naphtol; pyrocatechin; pyrogallol; resorcin; salicylic acid; salol; thymol; urethane.

FORMALDEHYDE—albumin; alkalies, ammonia; bisulphites; gelatin; copper, gold, and silver salts; phenylhydrazine; iron and tannin preparations.

GELATIN—alcohol; alumnol; chlorine water; ferric salts; formaldehyde; mercuric chloride; metaphosphoric acid; picric acid; platinum chloride; potassium ferrocyanide; tannic acid; tartar emetic.

GENTIAN—ferric and ferrous salts; lead acetate. GLONOIN—alkalies; carbonates; hydrochloric acid; hydriodic acid.

GLUCOSIDES—acids; alkalies; ferments; lead acetate and subacetate; hot water; tannic acid.

GLYCERIN—chromic acid; hot acids; lead oxide; potassium permanganate; silver nitrate.

GLYCYRRHIZIN, AMMONIATED — acids (mineral); alkalies; metallic salts.

GOLD AND SODIUM CHLORIDE—alkalies; alkaloids; arsenites; hypophosphorous acid; ferrous and mercurous salts; organic substances; oxalic acid; potassium iodide; sulphurous acid; thymol; vegetable infusions.

GUAIAC RESIN—acids (mineral); acacia; chlorine water; chromic acid; ferric and gold chlorides; metallic salts; potassium permanganate; spirit nitrous ether.

GUAIACOL—like creosote.
HOMATROPINE—like belladonna.

HYDRASTIS—alkaloidal precipitants.

Hydrogen Dioxide—alkalies; albumin; ammonia; arsenous salts; balsam Peru; carbolic acid; charcoal; chlorides; chlorine water; citrates of alkalies; ferric salts; glycerin; gold salts; hydrocyanic acid; hypophosphites; iodides; lime water; manganese dioxide; mercurous salts; nitrates; potassium bromide; potassium permanganate; sulphates; solution of chlorinated soda; tartrates; tinctures generally.

HYOSCYAMUS — acids: alkaloidal precipitants; ferrous sulphate; lead acetate; silver nitrate; vegetable astringents.

Hypophosphites—arsenic salts; bromine and bromates; chlorine and chlorates; chromates, cupric salts; ferric salts; iodine and iodates; nitric acid; permanganates; sulphuric acid; sulphurous acid.

ICHTHYOL—acids; alcohol; alkaloids; carbonates: iron salts.

INFUSIONS—alkaloidal salts; aluminium-hydrate solution; lead acetate and subacetate; mercuric chloride; silver nitrate; tartar emetic.

IDDIDES—alkaloids; arsenic salts (in acid sol.); bromine; chlorine; bismuth, cupric, ferric, lead, mercury (ic and ous), and silver salts; hydrogen peroxide (in acid sol.); nitric acid; nitrites (in acid sol.)

IODINE—alkalies; alkaline earths; chloral hydrate; alkaloids; ferrous salts; hypophosphites; hyposulphites; mercurous salts, metals; oils; turpentine; starch, tannic acid.

IODOFORM—alkalies (with heat); balsam Peru;

calomel; mercuric oxide; oils (in the light); silver nitrate; tannic acid.

IPECAC-lead acetate; vegetable astringents.

IRON (FERROUS) SALTS—alkalies; carbonates; chromates; chlorates (in acid sol.); ferricyanides; gold salts; hydrogen dioxide; mercuric salts; phosphates; permanganates; sulphides; tannic acid; silver salts.

IRON (FERRIC) SALTS—acacia; albumin; alkalies; apomorphine; aloin; benzoates; carbonates; creosote; balsam Peru; benzoin (in alcohol sol.); diuretin; gallic acid; gelatin; guaiac; guaiacol; hydriodic acid; hypophosphites: hyposulphites; iodides; morphine; oils of bay, cloves, cinnamon, pimento, thyme, and wintergreen; pyrogallol; resorcin; salol; sulphides; sulphites; salicylates; tannic acid; vegetable infusions and decoctions.

IRON CHLORIDE (FERRIC)—acacia; albumin; alkalies; carbonates; gelatin; lime water; magnesium carbonate; piperazine; vegetable decoctions, infusions and tinctures.

IRON SULPHATE (FERROUS)—alkalies; ammonium, barium, and calcium chlorides; carbonates; gold and silver salts; lead acetate; lime water; potassium iodide; piperazine; potassium nitrate; Rochelle salt; sodium borate; tannin; vegetable astringent infusions.

LEAD ACETATE—acids; alkalies; bromides; carbolic acid; carbonates; chloral hydrate; chlorides; chromates; cyanides; glucosides; gums; hydrochloric acid; iodides; opium; pyrocatechin; pyrogallol; resorcin; salicylic acid; sodium phosphate; sodium salicylate; sulphates; sulphides

sulphites; tannic acid: urea; urethane; vegetable decoctions, infusions, and tinctures.

LEAD SUBACETATE—see sol. lead subacetate.

LUPULIN—salts of iron, mercury, platinum and tin.

MAGNESIA—acids; with copaiba forms solid mass; with little water becomes hydrated.

Magnesium Salts—alkalies; arsenates; carbonates; lead acetate; lime water; oxalates; phosphates; silver nitrate; sulphites; tartrates.

MANGANESE SALTS—alkalies; carbonates; bromine; chlorine, and iodine (in alk. sol.); cyanides; phosphates.

MENTHOL—bromal hydrate; butyl-chloral hydrate; camphor; carbolic acid; chloral hydrate; chromic acid; exalgin; naphtol; potassium permanganate; pyrocatechin; pyrogallol; resorcin; thymol; urethane.

MERCURIC CHLORIDE (CORROSIVE SUBLIMATE)
—albumin; alkalies; alkaloids; ammonia; antimonous and arsenous salts; bromides; borax; carbonates; copper salts; ferrous salts; formic acid; glucosides; honey; hypophosphites or hypophosphorous acid; iodides; infusions of cinchona, columbo, oak bark, and senna; lead salts; lime water, milk; phosphates; piperazine; silver nitrate; soap; sulphates of potassium or sodium; sulphides; syrup sarsaparilla compound; tannic acid; tartar emetic; vegetable astringents; zinc salts.

MERCUROUS CHLORIDE (CALOMEL)—acacia; acids (mineral); alkalies; ammonia; antimony sulphide, golden; arsenites (in alk. mixtures); bromides; carbonates; chlorides; citric acid;

cocaine; cyanides; copper salts; hydrocyanic acid; hydrogen peroxide; hypophosphorous acid; iodides; iodine; iodoform; lead salts; lime water; mercuric oxides; pilocarpine; sodium bicarbonate; sugar (cane and milk); silver salts; soaps; sulphides; tragacanth.

MERCURY AMMONIATED (WHITE PRECIPITATE)—acids; alkalies; bromine; chlorine; iodine; lime water.

MERCURY IODIDE, RED — like mercuric chloride.

MERCURY IODIDE, YELLOW—like mercurous chloride.

MERCURY OXIDE—mineral acids; chloral hydrate; mercuric chloride.

MERCURY SUBSULPHATE (TURPETH MINERAL)

—acids; caustic alkalies.

METHYLENE BLUE—caustic potassa; potassium bichromate; potassium iodide; reducing agents; sulphuric acid.

MORPHINE — alkaloidal precipitants; borax; chlorates; ferric chloride; iodates; iodides; iodine; lead acetate and subacetate; magnesia; spirit nitrous ether; silver nitrate. See also alkaloids. Antagonists: atropine; caffeine; chloroform; cocaine; daturine; gelsemium; hyoscyamine; nicotine; paraldehyde; physostigmine; picrotoxin; veratrum viride.

MUSK—acids (mineral); cinchona infusion; ferrous sulphate; mercuric chloride; silver nitrate.

Naphtalin—carbolic acid; chromic acid; pyrocatechin; salol.

NAPHTOL BETA—antipyrin; camphor; carbolic acid; chlorinated lime; exalgin; ferric chloride;

menthol; potassium permanganate; pyrocatechin; urethane.

NITRITES—Acetanilid; antipyrin; chlorates; chromates; gold chloride; hypophosphites; iodates; iodides; mercury salts (ic and ous); permanganates; sulphites; tannic acid; vegetable astringent decoctions; infusions or tinctures.

NITROGLYCERIN-see glonoin.

Nux Vomica—see strychnine.

OIL TURPENTINE—bromine; chlorine; iodine; water.

OIL WINTERGREEN—like acid salicylic.

OPIUM—alkalies; alkaloidal precipitants; carbonates; catechu; cinchona; copper salts; galls; iron salts; kino; lead acetate and subacetate; lime water; mercuric chloride; silver nitrate; zinc sulphate. *Antagonists*: see morphine.

OXALATES-see oxalic acid.

Pancreatin—acids; alcohol; sodium chloride (in excess).

PARALDEHYDE—alkalies; hydrocyanic acid; iodides; oxidizers.

PEPSIN—alcohol; alkalies; tannic acid; vegetable decoctions and infusions.

PHENACETIN—acids (strong); alkalies (strong); carbolic acid; chloral hydrate; iodine; oxidizers; piperazine; pyrocatechin; salicylic acid.

PHENOCOLL HYDROCHLORATE—acids (nitric or nitro hydrochloric); alum; benzoates; chloral hydrate; cinchona; compound tincture or decoction; mercuric chloride; piperazine; potassium acetate, bicarbonate, bromide, citrate or sulphate.

PHOSPHATES—see acid phosphoric.

PHOSPHORUS—all oxidizers.

Physostigmine—see alkaloids. Antagonists: atropine; caffeine; chloral hydrate; morphine; strychnine.

PICROTOXIN—acids. Antagonists: chloral hydrate; morphine.

PILOCARPINE HYDROCHLORATE — alkaloidal precipitants; calomel; potassium permanganate. Antagonists: atropine.

PIPERAZINE — acetanilid; alkaloidal salts; alum; butyl-chloral hydrate; carbolic acid; chloral hydrate; copper sulphate; ferric chloride; ferrous sulphate; mercuric chloride; phenacetin; phenocoll hydrochlorate; picric acid; potassium permanganate; quinine; silver nitrate; solution arsenic and mercury iodide; sodium salicylate; spirit nitrous ether; tannic acid.

POTASSA, SULPHURATED—acids; acid salts.

POTASSIUM AND SODIUM TARTRATE—acids; ammonium chloride; barium salts; calcium salts; lead salts; magnesium sulphate; silver nitrate; sodium sulphate.

Potassium Permanganate—acids (mineral); alcohol; ammonia; arsenites; bromides; carbolic acid; chlorides; charcoal; fats; ferrous salts; glycerine; gums; hydrogen dioxide; hypophosphites; hyposulphites; mercurous salts; oils; organic substances; oxalic acid; oxalates; picric acid; piperazine; sulphites; tannic acid; tartaric acid.

PYOKTANIN-alkalies; mercuric chloride.

Pyrocatechin—acetanilid; alkalies; antipyrine; ammonium carbonate; bromal hydrate; butyl-chloral hydrate; camphor; camphor monobromated; carbolic acid; chloral hydrate; diure-

tin; euphorin; exalgin; ferric chloride; lead acetate; menthol; naphtalin; naphtol; nitric acid; phenacetin; pyrogallol; resorcin; salol; sodium phosphate; thymol; urea; urethane.

Pyrogallol—alkalies; ammonia; antipyrine; camphor; carbolic acid; diuretin; exalgin; ferric acetate or chloride; ferrous sulphate; gold salts; iodine; lead acetate; lime water; menthol; mercury salts; potassium permanganate; pyrocatechin; sodium phosphate; urea; urethane.

QUININE AND SALTS-like alkaloids.

RESIN—carbolic acid; caustic alkalies; menthol; salol; thymol; urethane.

RESORCIN—acetanilid; albumin; alkalies; antipyrin; camphor; exalgin; ferric chloride; menthol; potassium iodide (in alk. sol.); spirit nitrous ether; urethane.

RHUBARB—acids (mineral); ferrous sulphate: infusion of catechu; cinchona or galls; lead acetate; lime water; mercuric chloride; silver nitrate; tartar emetic; zinc sulphate.

SALICYLATES—see acid, salicylic.

SALOL—alkalies (with heat); bromine water; camphor; camphor monobromated; carbolic acid; chloral hydrate; exalgin; ferric chloride; naphtalin; pyrocatechin; resin; thymol; urethane.

SARSAPARILLA—galls infusion; lead acetate; lime water; mercuric chloride (with comp. syr. of).

SENNA—acids (mineral); carbonates; cinchona infusion; lead acetate; lime water; mercuric chloride; silver nitrate; tartar emetic.

SILVER NITRATE—acetates; alcohol; alkalies; antimony salts; arsenites; bromides; carbonates;

chlorides; chromates; creosote; cyanides; copper salts; ferrous sulphate; glucose; hypophosphites; iodides; morphine salts; oils; manganous salts; organic substances; phosphates; sulphides; sulphates; tartrates; vegetable astringent infusions and decoctions.

SILVER OXIDE—antimony and arsenic sulphides; bismuth; copper, iron, and mercury salts; creosote; iodine; organic substances; phosphorus; tannic acid.

SODIUM HYPOSULPHITE (THIOSULPHATE)—acids; barium, lead, mercurous, and silver salts; arsenic and ferric salts, and chromates and permanganates (all in acid solution); chlorates; iodine; nitrates; oxidizers.

SODIUM PHOSPHATE — alkaloids; antipyrine; carbolic acid; chloral hydrate; lead acetate; pyrocatechin; pyrogallol; resorcin; salicylic acid; sodium salicylate. See also acid, phosphoric.

SOLUTION ARSENIC AND MERCURY IODIDE (DONOVAN'S SOLUTION)—alkaloids; caustic alkalies; piperazine. See also acid arsenous and iodides.

SOLUTION LEAD SUBACETATE—acacia; acids (organic); albumin; alkaloids; antipyrine; glucosides. Otherwise like lead acetate.

SOLUTION SODIUM SILICATE—acacia; acids; alcohol.

SPIRIT AMMONIA, AROMATIC—acids; acid salts; lime water; aqueous fluids.

Spirit Camphor — acacia; aqueous fluids; gelatin,

SPIRIT LEMON—acacia, aqueous fluids; gelatin.

SPIRIT PEPPERMINT—acacia; aqueous fluids; gelatin.

SPIRIT NITROUS ETHER—acacia; acetanilid; alkalies; antipyrin; carbonates; ferrous sulphate; gelatin; guaiac tincture: iodides; morphine; tannic acid; piperazine; preparations of uva ursi; thymol. See also nitrites.

STARCH (IN SOLUTION)—acids; alcohol; alkalies; diastase; iodine; lead subacetate; lime water; tannic acid.

STRAMONIUM—acids (mineral) salts of iron, lead, mercury and silver. Otherwise like belladonna.

STRONTIUM SALTS—alkalies; carbonates; chromates; oxalates; phosphates; sulphates.

STRYCHNINE—all alkaloidal precipitants. Antagonists: aconite; alcohol; amyl nitrite; atropine; chloral hydrate; chloroform; curarine; digitalis; hydrocyanic acid; morphine; nicotine; paraldehyde; physostigmine; potassium bromide; urethane.

SULPHATES—see acid sulphuric.

Sulphur—potassium chlorate; potassium permanganate.

TARANACUM—galls infusion, iron, lead, mercury, and silver salts.

TARTAR EMETIC—see antimony and potassium tartrate.

TEREBENE—chlorine; bromine; iodine; water.

THEOBROMINE SALTS—gold, mercury, and silver salts; water. See also diuretin.

THYMOL—Acetanilid; antipyrin; butyl-chloral hydrate; camphor; camphor monobromated; carbolic acid; chloral hydrate; exalgin; gold salts;

menthol; pyrocatechin; quinine sulphate; resin; salol; spirit nitrous ether; urethane.

TRAGACANTH—alcohol; copper sulphate; ferrous sulphate; lead acetate (basic and neutral).

UREA—bromal hydrate; chloral hydrate; lead acetate; pyrocatechin; pyrogallol.

URETHANE—aldehydes; alkalies; antipyrin; benzoic acid; bromal hydrate; butyl-chloral hydrate; camphor; carbonates; carbolic acid; exalgin; menthol; naphtol; pyrocatechin; pyrogallol; resin; resorcin; salicylic acid; salol; thymol.

UVA URSI—alkalies; gelatin; cinchona infusion, iron and lead salts; opium; silver nitrate; spirit nitrous ether; tartar emetic.

VALERIAN—cinchona infusion; iron and silver salts.

VEGETABLE PREPARATIONS—iron and lead salts.

WATER—alcoholic extracts and tinctures; alkaloids generally; collodion; fats; oils; gum resins;

resins; resinous extracts and tinctures.

ZINC SALTS—acacia; alkalies; arsenates; carbonates; cyanides; lime water; milk; oxalates; phosphates; sulphates; sulphides; vegetable astringent decoctions and infusions.

POISONS AND THEIR ANTIDOTES*

In treating cases of poisoning, four indications must be kept in mind: (A) How to most quickly get the bulk of the poison out of the stomach by forcibly emptying it; (B) how to antidote the residual poison after evacuating the stomach; (C) how to eliminate from the system the poison that has entered the blood or gone on into the intestines; (D) how to treat the dangerous symptoms as they arise from the effects of the poison.

ACETANILID, ANTIFEBRIN, ANTIPYRIN.—Place patient in a recumbent position, allow plenty of fresh air; give stimulants (brandy, whiskey, aromatic spirit of ammonia, etc.) Apply heat externally; use atropine or belladonna to maintain blood pressure; strychnine to aid respiration; oxygen inhalations if there is excessive cyanosis.

ACID ACETIC.—Administer magnesia freely; soap and water, lime water, chalk; milk, oils and thick gruel may be given.

ACID CARBOLIC.—Unless great destruction of mucous membrane has occurred, produce vomiting by means of warm water containing some sodium bicarbonate or zinc sulphate; mustard, apomorphine. Demulcent drinks, flaxseed or elm tea, and white of egg beaten up with water, protect mucous surfaces. Do not give oils or

^{*}From Merck's Report Ready Reference. (Adapted to veterinary practice. When vomiting is mentioned it is understood to refer to the smaller animals as the pig, dog and cat; not to the herbivora.)

glycerin. As stimulants use whiskey, alcohol, ammonia, etc., hypodermically if need be; warmth, friction. Opium relieves pain. Excite counter irritation over the abdomen. Give digitalis and strychnine if needed. Recently whiskey and brandy have been warmly recommended, followed in a few minutes by a hypodermic injection of apomorphine to produce vomiting. A Dublin veterinarian, Allen, has lately recommended turpentine for carbolic acid poisoning.

ACID, CARBONIC AND COAL GAS.—Bring the patient at once into the open air. If the respiratory movements have ceased, cold water should be dashed on the face and chest, to awaken them to reflex action. If no effect is thereby produced resort to artificial respiration which should be continued for at least an hour. A series of quick sharp blows over the cardiac region will sometimes start the heart into action after it has stopped. Inhalation of oxygen or ammonia vapor, or an enema of black coffee, and venesection, may be of service.

ACID, CHROMIC, POTASSIUM CHROMATE AND BICHROMATE.—Evacuate the stomach with ½ oz. of mustard stirred to a cream with 1 oz. of water; (man or dog), or with zinc sulphate, apomorphine; ipecac or pump. Follow with magnesium oxide or carbonate, sodium bicarbonate, or chalk, in water; as demulcent drinks give barley, elm or flaxseed water.

ACID, HYDROCYANIC, CYANIDES, CHERRY-LAUREL WATER, OIL BITTER ALMOND.—Fifteen minims of official acid, or I grain of anhydrous acid, usually kills (man or dog) in 10 to 15 min-

utes. Place in recumbent position, allow plenty of fresh air: empty the stomach by mustard, zinc sulphate, or pump; keep the body warm. breathing ceases, use artificial respiration, mild faradic current to the heart, alternate cold and warm affusion to head, chest and spine; administer ammonia by inhalation or give it by mouth or veins; inject atropine solution 2 to 4 drops every half hour, to assist the heart's action. Ferrous sulphate with ferric sulphate, followed by potassium carbonate solution, vields inert Prussian blue. Ferrous sulphate alone or with calcined magnesia renders the acid insoluble, but the action of the acid is so quick that there is scarcely time for the application of many remedies. Brandy by the mouth, skin, or rectum has been found valuable.

ACID, OXALIC AND OXALATES:—Half to one ounce usually proves fatal (man or dog). If not already vomited by the poison, empty the stomach at once with mustard, zinc sulphate, pump or tube, then neutralize with chalk, whiting, or wall plaster in water, or lime water itself, never with sodium, potassium or ammonia salts, as these form soluble oxalates; apply hot fomentations to the loins. Give an enema to empty the bowels. Give much water to facilate elimination by the kidneys.

ACIDS, MINERAL: HYDROCHLORIC, NITRIC, NITRO-HYDROCHLORIC, SULPHURIC, PHOSPHORIC. One to four drams of the stronger acids usually proves fatal (man and dog). Neutralize with sodium bicarbonate, calcined magnesia, lime, chalk, or wall plaster mixed with water; if none

of these are accessible, dilute and wash out the stomach with considerable water. One may use with advantage any of the following—soap, milk, gruel, olive and almond oil, eggs beaten up. Avoid the stomach pump as it might perforate the softened cosophagus,

ACONITE AND ACONITINE. -Thirty to sixty drops of tincture or one-twentieth grain of alkaloid generally prove fatal (man or dog). Evacuate the stomach at once with zinc sulphate, apomorphine, mustard, or pump; place in a recumbent position, the head the lowest; apply warmth to the extremities; give solution, four drops hypodermically or, give tincture of belladonna twenty drops by the mouth, repeated. If heart syncope presents, give tincture of digitalis fifteen drops hypodermically or thirty drops by the mouth. As stimulants, use ammonia, brandy, strychnine, mustard plasters to the chest. vomiting and elimination of the poisoning by abundant water, to which may be added brandy or alcohol in any form. Inhale amyl nitrite, or oxygen, and if breathing stops use artificial respiration. Animal charcoal and tannin are of service.

(The doses of the antidotes mentioned above are for man and dog; for larger animals the dosage should be in proportion to size).

ALCOHOL.—Inebriation somewhat resembles opium poisoning and concussion of the brain. Empty the stomach, wash out well with warm coffee, keep the body very warm, but apply cold douche to the head; allow plenty of fresh air; apply interrupted current to the respiratory mus-

cles; ammonia water or amyl nitrite to the nostrils; keep the patient awake mechanically by shaking, shouting, etc.

ALKALIES, POTASSA, SODA AND AMMONIA.—
They usually cause vomiting, but if they do not, accomplish this by plenty of luke-warm water, to be followed by vinegar (dilute acetic acid, lemon or orange juice, tartaric or citric acid solution, 2 drams to a pint of water); olive oil (1 to 4 drams for man and dog); egg white, milk, demulcent drinks (arrowroot, elm, barley, or flaxseed water) to protect the mucous membranes and sustain vital powers. May always give plenty of water and relieve pain with laudanum or hypodermics of morphine:

ALKALOIDS IN GENERAL.—Tannin generally forms comparatively insoluble tannates: albumin; iodine, and charcoal also of service; use emetics and cathartics *later*.

AMMONIA.—Administer vinegar, lemon juice, orange juice, or any vegetable acid, followed by demulcents to protect the mucous surfaces. When inhaled, give vapor of acetic or hydrochloric acid or chlorine water by inhalation.

AMYL NITRITE.—Atropine, ergotin, or strychnine hypodermically are the best antidotes; stimulants, alternate hot and cold douches, with cold to the head, and artificial respiration are also useful measures.

ANTIMONY COMPOUNDS, TARTAR EMETIC.—In man, 2 to 5 grains have occasioned death, while several drams have failed to produce more than great vomiting and alarming general symptoms. Should these fail to cause the patient to vomit

one must create this by mustard, zinc sulphate, apomorphine or pump; follow with strong tea or coffee, solution of tannic or gallic acid, to form an insoluble compound. Give demulcent drinks (flaxseed, slippery elm, egg white, milk); opium and stimulants in small but frequent doses. If the body be cold, apply blankets; faradic current over the heart if necessary. Instead of tannin, freshly precipitated ferric hydroxide can be used, following with opium or morphine for the pain.

ANTIPYRIN.—See Acetanilid. APOCYNIN.—Like Digitalis.

ARSENIC COMPOUNDS.—Unless the poison itself vomits, accomplish this with mustard, zinc sulphate, apomorphine, pump, or tube. Either wash out the stomach with a large quantity of water or give freshly precipitated hydrated oxide of iron, made by double decomposition between any ferric solution and a solution of either diluted ammonia water, sodium carbonate, or magnesium oxide, the object being to form insoluble ferric arsenite or arsenate. The ammonia acts as a stimulant, the calcined magnesia as an aperient. One may give with advantage, oil, mucilaginous drinks, egg white, and in case of faintness, stimulants. skin be cold, apply hot blankets, and relieve the pain by opium or morphine; one may conclude with a dose of castor oil.

ATROPINE.—See Belladonna.

BARIUM COMPOUNDS.—See Lead compounds.

BELLADONNA OR ATROPINE, HYOSCYAMUS OR HYOSCYAMINE, STRAMONIUM OR DATURINE, DULCAMARA OR SOLANINE, DUBOISIA OR DUBOISINE.

—Empty the stomach by mustard, zinc sulphate,

apomorphine, pump or tube; give strong infusion of coffee or tea by the mouth or rectum; also pilocarpine nitrate; or instead, use morphine, opium, or physostigmine to antagonize the nervous disturbances of the poison. Apply hot water to the feet; alternate douches of hot and cold water are useful. Give stimulants (whiskey or brandy), ammonia to the nostrils; also practise artificial respiration.

BENZENE.—Evacuate the stomach (mustard, zinc sulphate, apomorphine, ipecac, pump). Give abundant fresh air; hypodermic atropine, or tincture of belladonna. Apply alternately hot and cold water douches to the chest; practise artificial respiration, and apply a mild interrupted current over the heart.

BLUE STONE.—See copper, under mercury compounds.

BROMIDES.—Give strong coffee, caffeine, citrate, digitalis; morphine is antagonistic to mental symptoms; ergot and belladonna are sometimes used.

BROMINE.—Give albumin, starch, gelatin, sodium or potassium carbonate or bicarbonate. Against the irritant vapor, inhalations of steam and ammonia vapor may be employed.

BRUCINE.—See strychnine.

CALABAR BEAN.—See Physostigma.

CAMPHOR.—Empty the stomach (by mustard, zinc sulphate, pump, etc.); give alcohol or brandy in small and frequent doses (best hypodermically); ether inhalations; alternate hot and cold douches; warmth to the extremities by hot blankets, etc.

CANNABIS INDICA.—Treat as in opium, but also in the first stages use lemon juice.

CANTHARIDES OR CANTHARIDIN.—In man or dog a half dram of powder or one ounce of the tincture usually proves fatal. Empty the stomach (mustard, zinc sulphate, apomorphine, ipecac, pump); allay pain with morphine hypodermically or tincture of opium (through the mouth or rectum). Give plenty of demulcent drinks (barley, elm, flaxseed tea, gruel or pure water) but no oils or oily emulsion, in which catharidin is very soluble; opium, stimulants, warm baths, cataplasms to the abdomen.

CARBON DISULPHIDE.—Quiet the nervous excitement with potassium bromide and chloral; support the circulation with stimulants; may vomit with mustard at first; ammonia to nostrils, warmth to the body, cold douche to the head; artificial respiration.

Castor Beans.—In man three seeds in one case, and twenty in another, have caused death in two and five days respectively. As soon as they have been swallowed give an emetic (mustard, etc.); later give demulcent drinks, opium to quiet violent symptoms which resemble those of cholera.

CAT BITES .- See Dog Bites.

CHERRY-LAUREL WATER. - See Acid Hydro-

cyanic.

CHLORAL.—One-half to one dram may prove fatal (small animals); empty the stomach (mustard, zinc sulphate, apomorphine, ipecac, pump). When the stomach is empty introduce coffee by tube (mouth or rectum); keep limbs warm (friction, mustard plasters, water bags). Administer hypo-

dermically, fresh 2% solution of strychnine nitrate every fifteen minutes. Picrotoxin may be substituted for strychnine. Arouse the patient and keep him awake by coffee, caffeine, flagellation, shaking, shouting; apply ammonia to the nostrils, cold to the head; amyl nitrite inhalations to stimulate the heart; practise artificial respiration if necessary.

CHLORATES (and Nitrates—potassium, sodium, etc.)—Empty the stomach (mustard, zinc, sulphate, amorphine). Give plenty of water and mucilaginous drinks to dilute the poison, opium to relieve the pain; amyl nitrite inhalations; avoid stimulants that would increase kidney congestion, keep warm by hot fomentations to the loins.

CHLOROFORM (or Ether, Nitrous Oxide Gas).— Withdraw the inhalation at once, lower well the head; pull the tongue forward so as to admit plenty of fresh air. Use artificial respiration and heat; weak current—one pole at the larynx, the other on the pit of the stomach (not far from diaphragm). Apply hot and cold douche; inhale amyl nitrite. If the heart has stopped, give several taps over that region, inhale ammonia, give brandy, atropine, strychnine. If swallowed evacuate the stomach (mustard, zinc sulphate, apomorphine, pump); enema of hot coffee, large draughts of water, containing sodium carbonate or bicarbonate, and proceed as if inhaled.

CHLORINATED LIME.—Administer albumin, mucilaginous drinks, oils, milk, or flour and water; avoid acids. Opium and alcohol are used for the vital depression.

CHLORINE.—Against chlorine preparations in the stomach employ albumin or ammonia water in small quantity and well diluted; emesis with warm water, then white of egg, or milk, flour, or lime water. Ammonia vapor is used against inhaled chlorine.

COAL GAS. - See Acid, Carbonic.

COBALT.—See Arsenic.

COCAINE.—Resembles closely atropine in its general action as to pulse; pupils, respiration, sweat glands and bowels. Give one of the usual emetics, then tannin. Morphine is probably the best all round antagonist; then in sequence, chloral, chloroform, and ether. Give amyl nitrite to counteract heart depression; alcohol and opium to stimulate the heart; should these fail, use artificial respiration. One may employ ammonia inhalations and caffeine.

Cocculus Indicus.—See Strychnine.

CODEINE.—See Opium.

COLCHICUM (wine or tincture; Colocynth, Elaterium).—If vomiting and purging have not occurred, accomplish the former by one of the usual emetics (mustard, zinc sulphate, ipecac, apomorphine, or pump); follow with tannic or gallic acid, or strong tea or coffee; plenty of water and demulcent drinks; opium or morphine to allay the pain in the stomach, purging, and to antagonize heart depression, stimulants (alcohol, whiskey, etc.). Keep the extremities warm and apply hot fomentations to the abdomen.

COLOCYNTH. - See Colchicum.

CONIUM (or Coniine).—Empty the stomach (mustard, zinc sulphate, apomorphine, pump);

apply external warmth (hot wraps, bags or bottles), give strong tea, coffee, tannic, or gallic acid, or any solution containing tannin; stimulants, artificial respiration; strychnine, picrotoxin, active exercise; castor oil.

CONVALLARIA.—See Digitalis.

COPPER COMPOUNDS.—See Mercury Compounds.

CORROSIVE SUBLIMATE.—See Mercury Compounds.

CREOSOTE.—Practically the same as with Carbolic Acid.

CROTON OIL.—Empty the stomach (mustard, zinc sulphate, apomorphine, pump); give tincture of opium or morphine hypodermically, until pain and purging are abated. Give demulcent drinks (elm, flaxseed water, mucilage, milk, olive oil, albumin, soup); spirit of camphor in milk; stimulants (brandy, alcohol, whiskey, ammonia), warm baths are also used.

CURARINE (or Curare).—If introduced in a wound, and all is not removed apply ligature, suck the injured part, washing it out with slightly alkaline solution of potassium permanganate; apply warmth to the loins, plenty of water internally, artificial respiration; spirit of nitrous ether rapidly eliminates the poison through the urine. The great difficulty is in sustaining life by artificial respiration until elimination begins.

CYANIDES. - See Acid Hydrocyanic.

CYTISINE (or Laburnum Seeds).—Induce vomiting and wash out the stomach with strong tea or coffee; follow with enema or quick purgative;

stimulant; rouse the patient by hot and cold

DATURINE.—See Belladonna.

DIGITALIS (or Digitalin; Scillain [Scillitin], (Strophanthus, Strophanthin, Convallaria, Scoparius).—Evacuate the stomach (mustard, zinc sulphate, apomorphine, pump). Follow with strong tea or coffee or tannic or gallic acid in water. Hypodermic solution of aconitine nitrate may be given, or tincture of aconite by mouth; if this has given good results repeat in thirty minutes, keep the patient quiet and do not allow an erect position, as that may cause fainting to death. Give stimulants frequently by the mouth, or if vomiting occurs, by the rectum. When the drug has been in continuous use, opium is the best antidote. Saponin and Senegin are the best physiologic antagonists.

Dog BITES (and Cat Bites).—Suck out the wound well with the mouth, wash with a weak alkaline solution (ammonia, caustic potash, etc.), then cauterize with lunar caustic.

DUBOISIA (and Duboisine).—See Belladonna.
DULCAMARA (and Solanin).—See Belladonna.

ELATERIUM.—See Colchicum.

ERGOT.—Evacuate the stomach (mustard, zinc sulphate, apomorphine, pump). Give purgative (Croton Oil) and assist the action by plenty of warm drinks. Tannic or gallic acid may be useful; after vomiting and purging, administer small doses of opium at intervals. Nitroglycerin every 15 minutes has been effective. Allow a recumbent position. Apply warmth and friction to maintain the circulation; stimulants, amyl nitrite.

ESERINE.—See Physostigma.

ETHER. - See Chloroform.

FISH POISON.—Administer emetics and cathartics; potassium chlorate, solution ammonium acetate, opium, capsicum or chloroform.

FOWLER'S SOLUTION. - See Arsenic.

Fungi.-See Mushrooms.

GELSEMIUM (and Gelsemine). — Empty the stomach (mustard or pump); give atropine hypodermically or tincture of belladonna by mouth; apply external heat by rubbing; stimulants (digitalis, ammonia, coffee, alcohol, artifical respiration, electricity); rouse the patient by hot and cold douches.

GLONOIN.-Like Amyl Nitrite.

GOLD SALTS .- Like Mercury compounds.

Hyoscine.—Similar to Belladonna, but chloral is used here with great advantage.

Hyoscyamus (and Hyoscyamine).—See Belladonna

IGNATIA. - See Strychnine.

IODINE.—Empty the stomach (mustard, zinc sulphate, apomorphine, pump); follow with starch diffused in hot water or as a paste, or flour in warm water; farinaceous substances (arrowroot, boiled rice, thin gruel); demulcent drinks; may inhale amyl nitrite and relieve the pain by opium and morphine.

LABURNUM SEEDS .- See Cytisine.

LACTUCARIUM .-- See Opium.

LAUDANUM. -- See Opium.

LEAD COMPOUNDS (Lead Chromate and Acetate Barium Compounds).—If acute empty the stomach (mustard, zinc sulphate, apomorphine, pump);

follow with sulphate of magnesium or sodium, or dilute sulphuric acid; milk, demulcent drinks. For the pain give opium or morphine: for lead colic, apply hot fomentations. If it be chronic lead poisoning, recognized by a blue line (sulphide) along the margin of the gums, paralyzed extensors, constipation, etc., give iodides to saturation (sodium and calcium iodides being best); sulphurated potassa baths.

LOBELIA.—If the patient has failed to vomit, use emetics; follow with tannin, stimulants, strychnine, opiates.

LUNAR CAUSTIC.—See Silver Compounds. MATCHES.—See Phosphorus.

MERCURY COMPOUNDS (also Copper Compounds).—Empty the stomach (mustard, zinc sulphate, apomorphine, ipecac, pump); follow with albumin (white of one egg to every 4 grains of corrosive sublimate). Too much must not be given lest the precipitate formed by the mercuric salt and albumin be redissolved. Now give an emetic-warm water with sodium bicarbonate, zinc sulphate, or mustard, and wash out the stomach with demulcent drinks (flaxseed or elm). If egg white is not convenient, one may use for mercury salts, gluten, wheat flour in paste form, milk, or chop and diffuse in water fresh meat and administer the broth. Morphine for pain. For copper compounds also use stimulants; relieve the pain with opium or give reduced iron or weak solution of potassium ferrocyanide; then potassium iodide until the system is saturated to promote elimination.

MORPHINE SALTS. -See Opium.

MUSCARINE. - See Mushrooms.

MUSHROOMS (and Poisonous Fungi; also Muscarine).—Empty the stomach (mustard, zinc sulphate, apomorphine, pump); inject at once solution of atropine, or after emesis give tincture of belladonna every half hour; castor oil and enema to remove fungi from lower bowel; stimulants; the body should also be kept warm.

NICOTINE. - See Tobacco.

NITRATES. - See Chlorates.

NITROBENZENE.—(Oil Mirbane).—Empty the stomach (mustard, zinc sulphate, pump), washing it out with plenty of warm water if possible. Give stimulants by the mouth, the rectum or hypodermically; artificial respiration which must be maintained, by weak, interrupted currents to the chest wall. Rouse the patient by the douche; hypodermic atropine may be useful.

NITROGLYCERIN.—Like Amyl Nitrite.

NITROUS OXIDE GAS. - See Chloroform.

NUX VOMICA.—See Strychnine.

OIL BITTER ALMOND .- See Acid Hydrocyanic.

OIL MIRBANE. - See Nitrobenzene.

OPIUM (also Laudanum, Morphine, Codeine, Lactucarium, Cannabis Indica) —When the poison has been taken by the mouth give at once a solution of potassium permanganate, then empty the stomach, which may be difficult, by pump, apomorphine, mustard or zinc sulphate. Wash the stomach out well with hot coffee, leaving there a pint or more; keep the body warm with hot wraps, but use alternate hot and cold douches to the head. Use hypodermic solution of atropine every 15 minutes for three doses; tannin and

strychnine are also valuable. Apply electricity to chest muscles and artificial respiration. Keep the patient awake by shaking, flicking with a towel, applying cold water over the face and chest, keep patient moving: give inhalation of amyl nitrite. Evacuate the bladder often to prevent reabsorption.

PHENACETIN.—Like Acetanilid.

PHOSPHORUS (as well as Rat Poison and Matches.)—Empty the stomach (copper sulphate until the patient has vomited sufficiently; zinc sulphate, mustard, pump—the copper forming insoluble black phosphide). Follow this with old (oxygenated, acid, French) oil of turpentine in mucilage or floating on water; may also inhale diluted turpentine vapor; give charcoal or lime water to prevent action on tissues; also magnesium sulphate as a cathartic. Potassium permanganate, opium, and egg white may be of service, but never use fats or fatty oils, as these dissolve phosphorus, thus aiding its absorption. It is mostly eliminated by the urine, hence the bladder should be frequently evacuated.

PHYSOSTIGMA (and Physostigmine).—Evacuate the stomach (mustard, zinc sulphate, ipecac, apomorphine, pump); hypodermic of atropine until pupils dilate. Should this fail, give chloral, or hypodermic of strychnine. Diffusible stimulants, coffee, alcohol, etc., are used and artificial respiration should be induced if necessary; empty the bladder often.

PHYTOLACCA.—It acts per se as an emeto-cathartic, hence after the vomiting give stimulants, alcohol, ether, opium, digitalis.

PICROTOXIN.—See Strychnine.

PILOCARPUS (and Pilocarpine).—Evacuate the stomach, follow with hypodermic of atropine, or tincture of belladonna, until pupils are dilated: may give tannin.

Potassa -See Alkalies.

POTASSIUM BICHROMATE and CHROMATE.—See Chromic Acid.

POTASIUM CYANIDE.—See Acid Hydrocyanic.

POTASSIUM NITRATE.—See Chlorates.

PRUSSIC ACID.—See Acid Hydrocyanic.

PULSATILLA.—Give tannic acid and follow with an emetic; alcohol, opium, or digitalis may also be indicated.

RAT PASTE. - See Phosphorus; also Arsenic.

RHUS TOXICODENDRON.—Rub in a saturated solution of lead acetate in diluted alcohol, and repeat for several days; 5% solution or 10% oleate of cocaine is also effective; a solution of 2 drams of lead acetate and 4 drams of ammonium chloride in 8 fl. oz. of water has also been recommended. Internally, opium or coffee may be used to relieve the nervous irritability.

SABADILLA.—See Veratrum Viride.

SAVINE (oil and tops; also Tansy).—If not vomited and the throat not inflamed, evacuate the stomach with mustard, zinc sulphate, ipecac, pump. If the bowels have not moved freely, give either castor oil or epsom salt; allay pain with morphine and demulcents.

SCILLAIN (Scillitin).—See Digitalis.

SCOPARIUS - See Digitalis.

SILVER COMPOUNDS.—Give common salt dissolved in warm water, to form insoluble silver

chloride; or use egg white or milk; (follow with an emetic (mustard), and large draughts of warm water; give demulcent drinks (arrowroot, elm, flaxseed, gruel).

SNAKE BITES.—Suck the wound and apply to it an alkaline solution of potassium permanganate (may inject this under the skin). In severe cobra poisoning, with death threatening, bleed at one limb and transfuse blood by the other; give artificial respiration and weak interrupted galvanic shocks to the walls of the chest; inhale and give ammonia by the mouth.

Soda.—See alkalies.

SOLANIN.—See Belladonna.

STAPHISAGRIA (Stavesacre).—Evacuate the stomach (emetics, pump, draughts of warm water); give tannin, charcoal, diffusible stimulants. Keep the patient quiet and the extremities warm. Give chloral hydrate, or potassium bromide; or better inhale chloroform for the spasms. Use all haste as death is usually caused by asphyxia.

STINGS (Bees, Hornets, Wasps).—Apply ammonia water or some alkaline solution to the part stung; extract the sting; use stimulants, if necessary. One may apply an onion to the part, but this is not as good as ammonia.

STRAMONIUM.—See Belladonna.

STROPHANTHUS (or strophanthin).—See Digitalis.

STRYCHNINE SALTS (or Brucine, Ignatia, Nux Vomica, Picrotoxin, Cocculus Indicus).—Remove the patient from all noise, quickly empty the stomach (mustard, zinc sulphate, apomorphine hypodermically); give tannin, charcoal, iodide of

starch. Place the patient under chloroform, ether, or chloral and potassium bromide, thus keeping up gentle narcosis several hours if necessary; inhale amyl nitrite. If spasms threaten respiration, induce it artificially; empty the bladder often.

SULFONAL AND TRIONAL.—Give diuretics and saline cathartics; sodium bicarbonate and water freely.

SULPHURETTED HYDROGEN.—Resort to artificial respiration and inhalation of chlorine diluted with air; or give chlorine water or chlorinated lime.

TANSY.-See Savine.

TARTAR EMETIC.—See Antimony Compounds.

TIN COMPOUNDS.—Evacuate the stomach (mustard, zinc sulphate, ipecac, etc.). Give milk of calcined magnesia; demulcent drinks (elm, flax-seed, etc.); laudanum if there is much pain.

TOBACCO (or Nicotine).—Concentrated enemas and large quantities of powder kill in a very few hours. If the patient has not already vomited the drug, empty the stomach by mustard, zinc sulphate or pump; give plenty of water; let the patient lie down; inject a solution of strychnine nitrate or give tincture of nux vomica by the mouth; stimulants, brandy, whiskey, chloric ether, etc.; keep the body warm but apply cold douche to the head; tannin and astringent solutions may be given.

TURPENTINE.—Empty the stomach (mustard, zinc sulphate, ipecac, apomorphine, pump, tube). If there is no purging give enema, plenty of water and demulcent drinks to eliminate it by the kid-

neys. Apply hot fomentations to the loins; allay the pain with opium.

Tyrotoxicon (in milk, cheese, ice cream, etc.).—Give emetics and rinse out stomach; follow with purgative enema.

VERATRUM VIRIDE (also Veratrine, Sabadilla, Veratrum Album).—Evacuate the stomach (unless the veratroidine constituent has ejected itself by causing vomiting), by mustard, zinc sulphate, ipecac or pump. Give recumbent position, head lowest; dry warmth to the body, wraps, blankets, etc.; give hot coffee by the mouth or rectum; tannin, diffusible stimulants, alcohol, brandy, whiskey, ammonia, morphine, electricity, artificial respiration; atropine antagonizes the cardiac depression.

WHITE PRECIPITATE.—See Mercury Compounds.

ZINC COMPOUNDS.—Should the patient not vomit, use plenty of warm water containing carbonate or bicarbonate of sodium, or mustard; follow this with white of egg and milk; solution of tannin or strong tea to form insoluble tannate; allay the abdominal pain by hot fomentations, morphine or tincture of opium.

CLASSIFICATION OF MEDICINES

ACCORDING TO

THEIR PHYSIOLOGIC ACTIONS.

ALTERATIVES.

Acid, Arsenous.

Acid, Hydriodic.

Ammonium Benzoate.

Antimony Salts.

Arsenic and Mercury

Iodide Solution.

Arsenites and Arsenates.

Calcium Chloride.

Colchicum.

Copper Salts.

Creosote and its

Compounds.

Gold Salts.

Guaiacol and its

Compounds.

Ichthyol.

Iodides.

Iodipin.
Iodoform.

Manganese Dioxide.

Mercurials.

Potassium Bichromate.

Potassium Chlorate.

Pulsatilla.

Sanguinaria.

Silver Salts.

Stillingia. Sulphur.

Suprarenal Capsule.

Xanthoxylum.

Zinc Salts.

Analgesics. See Anodynes, General.

ANAPHRODISIACS.

Belladonna.

Bromides.

Bromipin.

Diomipin

Camphor.

Cocaine.

Conium.

Digitalis.

Gelsemium.

Hvoscvamus.

Opium.

Stramonium.

ANESTHETICS, GENERAL.

Chloroform.

Ether

Ethyl Bromide. (Nitrous Oxide).

ANESTHETICS LOCAL.

Chloretone.

Cocaine Hydrochlorate.

Ether Spray. Ethyl Chloride.

Eucaine.

Holocaine. Menthol.

Tropacocaine.

ANODYNES, GENERAL.

Acetanilid.

Acid, Salicylic.

Antipyrine.
Aspirin.
Atropine.

Bromides.

Butyl-chloral Hydrate.

Caffeine.

Camphor Monobrom.

Chloroform.

Gelseminine. Methylene Blue.

Morphine Salts. Oil Gaultheria.

Phenacetin.

Anodynes, Local.

Acid, Carbolic.

Aconite, Tincture.

Aconitine.

Ammonia water.

Atropine.
Belladonna.
Chloroform.

Chloral Hydrate.

Guaiacol. Ichthyol.

ANTACIDS OR ALKALINES

Calcium Carbonate.

Lime Water.

Lithium Carbonate.

Magnesia.

Magnesium Carbonate.

Potassium Bicarbonate.
Potassium Carbonate.

Potassium Hydrate. Sodium Bicarbonate. Sodium Carbonate.

Sodium Hydrate.

ANTHELMINTICS.

Aloes. (Enema.)

Aspidium. Chenopodium.

Koussein. Naphtalin.

Oil Turpentine.

Extract Male Fern.
Pelletierine Tannate.

Pumpkin Seed.

Quassia Infusion

Santonin with Calomel.

Sodium Santoninate.

·Spigelia.
Thymol.

ANTI-EMETICS.

Acid, Hydrocyanic.
Bismuth Subcarbonate.
Bismuth Subnitrate.

Bromides.

Cerium Oxalate.

Chloroform.

Codeine. Ether.

Menthol.
Morphine.

Orexine Tannate.

ANTIGALACTAGOGUES.

Agaricin.

Belladonna.

Camphor; topically.

Conium.
Ergot.

Iodides.
Saline Purgatives.

ANTIHYDROTICS.

Acid, Camphoric. Acid, Gallic.

Acid, Gallic.
Acid, Tannic.

Agaricin.

Atropine.

Lead Acetate.
Picrotoxin.

Ouinine.

Salicin.

ANTILITHICS.

Acid, Benzoic.

Alkalies.

Benzoates. Lithium Salts.

Magnesium Citrate.

Magnesium Oxide.

Piperazine.

Potassium Bicarbonate.

Potassium Carbonate.

Potassium Citrate.

Sodium Bicarbonate. Sodium Phosphate.

Sodium Salicylate.

ANTIPARASITICS.

See Parasiticides.

ANTIPERIODICS.

Acid, Arsenous.

Acid, Picric.

Berberine Carbonate.

Cinchona and

Alkaloids.

Methylene Blue.

Quinine. Salicin. ANTIPHLOGISTICS. See also Antibyretics.

Aconite, Tincture. Antimony-Potassium Tartrate. Gelsemium. Ichthyol; internally. Lead Salts.

ANTIPVRETICS.

Acetanilid. Acid. Benzoic. Acid, Carbolic. Acid, Salicylic. Aconite, Tincture. Ammonium Acetate: Solution. Ammonium Benzoate.

Aspirin. Phenacetin.

Resorcin.

Opium.

Veratrum Viride, Tincture.

Ouinine and Salts.

See also ANTISEPTICS. Disinfectants

Acetanilid.

Acid Benzoic; and

Benzoates. Acid, Boric; and Borates. Potassium Chlorate.

Acid, Carbolic.

Acid, Picric.

Aristol

Bismuth, Benzoate.

Oxviodide.

Subgallate. Borolyptol.

Chlorine Water. Creolin.

Creosote and its Com-

pounds. Eucalyptol. Formaldehyde. Glycozone.

Hydrogen Peroxide.

Hydrozone. Ichthyol. Iodoform. Iodole. Listerine.

Magnesium Salicylate.

Sulphite. Mercury Bichloride.

> Chloride. Cvanide.

Oxycyanide.

Napthtalin. Napthol. Oil Cade.

Eucalyptus.

Gaultheria.

Pinus Sylvestris.

Turpentine.

Permanganate

Pvoktanin.

Quinine. Camphor.

Resorcin. " Monobrom.

Salol. Chloral Hydrate. Silver Citrate. Chloroform.

" Nitrate. Coniine Hydrobromate.

Sodium Riborate. Eserine.

" Bisulphite. Ether.

" Salicylate. Ethyl Bromide. Sodium Sulphocarbolate. Ethyl Iodide.

" Thiosulphate. Hyoscine Hydrobro-

Tannoform. mate.

Terebene. Hyoscyamus.
Thymol. Lactucarium.

Xeroform. Lobelia.
Zinc Carbolate. Lupulin.
"Permanganate. Morphine,

" Sulphocarbolate. Musk.

ANTISIALAGOGUES.

Atropine.

Opium

Atropine. Opium.

Belladonna. Paraldehyde.

Cocaine Hydrochlorate. Pulsatilla: tincture.

Myrrh. Stramonium

Myrrh. Stramonium.
Opium. Zinc Valerianate.
Potassium Chlorate.

Sodium Borate. ANTITUBERCULARS.

Antispasmodics. Acid, Cinnamic. Acid, Sulphurous.

Acid, Camphoric. Arsenical Compounds.

Ammonium Valerianate. Cantharidin.

Amyl Nitrite. Cod-Liver Oil.

Atropine. Creosote and its

Bromides. Compounds.

Bromoform. Guaiacol and Salts.

Glycerinophosphates. Ichthyol. Iodoform, topically. Menthol. Methylene Blue. Sodium Cacodylate. Sodium Cinnamate. Sodium Formate: Subcutaneously.

ANTIZYMOTICS, See Antiseptics and Disinfectants.

APERIENTS. See Cathartics.

APHRODISIACS.

Cantharides. Damiana. Glycerinophosphates. Gold. Nux Vomica. Phosphorus. Strychnine.

ASTRINGENTS.

Acid, Chromic. Gallic. Lactic. Tannic.

Alum. Aluminum Acetate: Solution. Aluminum Chloride. Rismuth Salts. Copper Acetate. " Sulphate. Hydrastine Hydrochlorate. Hydrastis. Ichthyol. Iron Sulphate, and other

Aluminum Sulphate.

iron salts. Lead Acetate, and other lead salts: Potassium Bichromate.

Silver Citrate. " Nitrate. Zinc Acetate. Sulphate.

ASTRINGENTS, INTES-TINAL.

Acid, Lactic. " Tannic. Bismuth Salts. Catechu. Geranium. Kino. Krameria. Lead Acetate. Silver Nitrate. Tannalbin.

CARDIAC SEDATIVES. Acid, Hydrocyanic.

Aconite.

Antimony preparations. Nutmeg.

Chloroform.

Digitalis. Gelsemium.

Pilocarpine. Veratrine

CARDIAC STIMULANTS.

Veratrum Viride.

Ammonia

Ammonium Carbonate.

Atropine. Caffeine.

Digitalis.

Ether.

Nitroglycerin. (Oxygen).

Sparteine Sulphate.

Strophanthus.

Strychnine. (Tonic)

CARMINATIVES.

Anise. Calumba.

Capsicum.

Cardamon.

Caraway. Cascarilla.

Chamomile. Cinchona.

Cinnamon. Cloves.

Gentian.

Ginger.

Nux Vomica. Oil Cajuput.

Mustard Orange Peel.

Orexine Tannate.

Pepper Pimenta.

Ouassia. Sassafras.

Serpentaria.

CATHARTICS.

Laxatives:

Cascara Sagrada.

Figs. Glycerin.

Magnesium Carbonate.

Oxide

Manna.

Oil Almond, Expressed.

Oil Olive.

Rhamnus Cathart. Rhamnus Frang.

Sulphur.

Saline Purgatives:

Magnesium Citrate.

Sulphate. Potassium Bitartrate.

Tartrate.

and Sodium

Tartrate.

Sodium Phosphate.

Sodium Sulphate.

Simple Purgatives;

Aloes.
Calomel.
Castor Oil.
Rhubarb.
Senna.

Drastic Cathartics:

Colocynth.
Elaterium.
Euonynim.
Gamboge.
Jalap.
Oil, Croton.
Podophyllin.
Scammony.

Hvdragogues:

Drastic Cathartics in large doses. Saline Purgatives.

Cholagogues;

Aloin.
Euonynim.
Leptandrin.
Mercurials.
Ox-Gall.
Podophyllum.

Escharotics. See

CEREBRAL DEPRES-SANTS. See also Narcotics.

Anesthetics, general.
Antispasmodics: Several
Hypnotics.
Narcotics.

CHREBRAL STIMULANTS

Alcohol.
Amyl Nitrite.
Atropine.
Belladonna.
Caffeine.
Cannabis.
Coca.
Cocaine.
Coffee.
Ether.
Nitroglycerin

Nitroglycerin. Strychnine.

CHOLAGOGUES. See Cathartics: also Hepatic Stimulants.

CONSTRUCTIVES. See Tonics.

COUNTER-IRRITANTS.

See Irritants.

DEMULCENTS.

Acacia. Albumin. Althea. Cetraria.

Chondrus.

Elm.

Flaxseed.

Gelatin.

Glycerin.

Oil Almond Expressed.

Oil Olive.

Starch.

DEOXIDIZERS. (Reducing Agents.)

Acid, Pyrogallic.

Ichthyol.

Resorcin.

DEPILATORIES.

Barium Sulphide.

Calcium Oxide.
(Calcium Sulphydrate)

Cautery.

Sodium Ethylate.

" Sulphide.

DIAPHORETICS AND SUDORIFICS.

Acid, Salicylic and Salicylates.

Aconite.

Ammonium Acetate.

Camphor.

Dover's Powder.

Ether. Guaiac. Opium.

Pilocarpine Hydro-

chlorate.

Potassium Citrate.

1411111

Sodium Nitrite.

Spirit Nitrous Ether Veratrum Viride.

DIGESTIVES.

Acid, Hydrochloric.

" Lactic.

Ingluvin.

Lactopeptine.

Malt.

Orexin Tannate.

Pancreatin.

Papain.

Pepsin.

DISINFECTANTS. See also

Deodorants.

Acid, Boric.

" Carbolic.

" Sulphurous.
Aluminum Chloride.

Ammonium Persulphate.

Borates.

Calcium Permanganate.

Chlorine Water.

Creolin.

Eucalyptol.

Formaldehyde.

Glycozone.

Hydrogen Peroxide.

Hydrozone.

Iron Sulphate. Lime, Chlorinated.

Mercury, Bichloride.

Naphtol.

Oil Eucalyptus.

Potassium PermanganateSparteine Sulphate. Solution Chlorinated

Soda.

Thymol.

Zinc Chloride.

DIURETICS.

Adonis Vernalis.

Ammonium Acetate.

Apocynum. Atropine.

Belladonna.

Cactus Grandiflorus.

Caffeine.

Convallamarin.

Copaiba.

Cubebs.

Digitalis preparations.

Diuretin.

Juniper.

Kava Kava.

Lithium Salts.

Matico. Nitrites.

Oil Juniper.

Oil Santal. Pilocarpine Hydrochlor.

Piperazine.

Potassium Acetate.

Bitartrate.

Citrate.

Nitrate.

Sodium Acetate.

Nitrate.

Spirit Nitrous Ether.

Squill.

Strophanthus.

Theobromine.

ECROLICS. See Oxytocics

EMETICS.

Antimony and Potassium

Tartrate.

Apomorphine Hydro-

chlorate.

Copper Sulphate.

Emetine.

Ipecac.

Mercury Subsulphate.

Mustard with tepid water.

Zinc Sulphate.

EMMENAGOGUES.

Aloes.

Cantharides.

Ergot.

Guaiac.

Iron Chloride and other

salts of iron.

Manganese Dioxide.

Myrrh.

Pennyroyal.

Potassium Permangan.

Rue.

Savine.

Tansy.

ERRHINES, (Sternuta tories).

Cubebs.

Sanguinarine.

Veratrine.

White Hellebore.

ESCHAROTICS.

Caustics.

Acid. Acetic Glacial.

" Arsenous.

" Carbolic.

Acid, Carbolic, Iodized.

" Chromic.

" Lactic.

" Nitric.

Alum Burnt.
Copper Sulphate.

Iodine.

Potassa.

Silver Nitrate.

Soda.

Sodium Ethylate.

Zinc Chloride.

EXPECTORANTS.

Acid, Benzoic.

Ammoniac.

Ammonium Carbonate.

" Chloride.

Salicylate.

Antimony and Potassium

Tartrate.

Antimony Salts in

general.

Apomorphine Hydro-

chlorate. Balsam Tolu.

Benzoates.

Emetine in small doses.

Glycyrrhizin, Ammon-

iated.

Ipecac.

Lobelia.
Oil Turpentine.

Pilocarpine Hydrochlor.

Potassium Iodide.

Sanguinarine.

Saponin.

Senegin. Squill.

Tar.

Terebene

GALACTAGOGUES.

Acid, Lactic.

Alcohol.

Ammonium Chloride.

Castor Oil: topically.

Extract Malt.

Jaborandi.

Pilocarpine Hydrochlor Opium.

GASTRIC TONICS.

Quinine.

(Stomachics.)

Lessening Urea:

Alkalies: before meals.

Aromatics.
Berberine Carbonate.

Morphine. Opium.

Colchicum

Bismuth Salts.

Quinine.

Bitters.

Carminatives.

Hydrastis, Ichthalbin.

Nux Vomica. Orexine Tannate.

Quassin.

Lessening Glycogen:

Arsenic.
Antimony.
Codeine.

Dionin. Morphine.

Opium. Phosphorus.

Arsenical Compounds.

HEMATINICS.

Ext. Bone Marrow.

Hemo-gallol. Hemoglobin.

Iron Compounds.

HEPATIC STIMULANTS.

Acid, Benzoic.
" Nitric.

" Nitrohydrochlor.

Manganese Compounds Aloes.

Sodium Cacodylate.

HEMOSTATICS. See Styptics and Hemo-

statics.

Ammonium Chloride.

Amyl Nitrite.
Antimony.
Arsenic

Benzoates.

HEPATIC DEPRESSANTS. Calomel.

Lessening Bile:

Colocynth. Euonynim.

Lead Acetate.
Purgatives: Many of

them.

Podophyllin. Resin Jalap.

Morphine.

Sanguinarine.

Sodium Bicarbonate. Menthol.

" Phosphate. Mustard.
" Salicylate. Oil Turpentine.

" Sulphate. Oleoresin Capsicum.

HYPNOTICS (Soporifics). Pustulants:

Acetanilid. Antimony and Potassium

Apomorphine Hydro- Tartrate.

chlorate. Oil Croton.

Bromides. Silver Nitrate.

Cannabin Tannate. Vesicants:

Chloral Hydrate. Acid, Acetic, Glacial.

Chloratose. Cantharides. Chloretone. Chrysarobin. Codeine Oil Mustard.

Codeine. Oil Mustard.

Dionin. LAXATIVES. See

Duboisine Sulphate. Cathartics:

Hyoscyamine. . MOTOR DEPRESSANTS.

Morphine. Acid, Hydrocyanic.

Paraldehyde. Aconite.
Sulfonal. Amyl Nitrite.

Trional. Apomorphine Hydro-

Urethane. chlorate.

INTESTINAL ASTRING- Bromides.

ENTS. Bromipin.
See Astringents. Bromoform.

Chloral Hydrate.

IRRITANTS. Chloroform (large doses).

Rubefacients: Coniine Hydrobromate.

Ammonia. Gelsemium.
Arnica. Gold Bromide.
Capsicum. Lobelia.

Iodine. Muscarine.

Nitrites.

Nitroglycerin.

Physostigmine(Eserine).

Ouinine (large doses). Sparteine Sulphate.

Veratrum Viride.

MOTOR EXCITANTS

Alcohol.

Atropine.

Belladonna.

Brucine.

Camphor.

Chloroform. Nux Vomica.

Picrotoxin.

Pilocarpine Hydrochlor.

Pyridine. Strychnine.

MYDRIATICS.

Atropine.

Homatropine Hydrobromide.

Hyoscine Hydrobrom. Scopolamine Hydro-

bromide.

Myotics.

Arecoline Hydrobrom.

Physostigmine.

(Eserine.)

Pilocarpine Hydrochlor. Magnesium Citrate.

NARCOTICS. See also Hypnotics.

Chloroform.

Chloral Hydrate.

Conium. Hyoscine.

Hyoscyamine.

Morphine.

Opium.

Stramonium.

OXYTOCICS (Echolics).

Cotton Root Bark.

Ergot.

Hydrastine.

Hydrastinine Hydro-

chlorate.

Pennyroyal.

Ouinine.

Rue. Savine.

> PARASITICIDES. See Antiseptics and Disinfectants

PURGATIVES. See Cathartics.

REFRIGERANTS.

Acid, Citric.

Phosphoric, Dil.

Tartaric.

Ammonium Acetate.

Magnesium Sulphate. Potassium Bitartrate.

" Citrate.
" Nitrate.

" Tartrate.

Sodium Nitrate.

" Tartrate.

RESOLVENTS ('Discutients).

Arsenic.
Ichthyol.

Iodides.

Iodipin.

Mercurials.
Thiosinamine.

RESPIRATORY DEPRES-SANTS.

Acid, Hydrocyanic.

Aconite. Chloral. Chloroform. Conium.

Gelsemium.
Muscarine.
Opium.
Physostigma.

Veratrum Viride.

RESPIRATORY STIMU-LANTS.

Aspiodiosperma. (Quebracho.)

Aspidiospermine.

Atropine. Caffeine. Cocaine.

Strychnine.

RESTORATIVES. See Hematinics, Tonics.

RUBEFACIENTS. See Irritaants.

Separtives (Nerve). See also Depressants.

Acetanilid.

Acid, Hydrobromic. Amyl Nitrite.

Antipyrin.
Bromides.
Bromipin.
Bromoform.

Butyl-Chloral Hydrate.

Camphor.

Camphor, Monobrom.

Cardamon.
Chloral Hydrate.
Chloroform.
Cocaine.
Codeine.
Conium.

Ethyl Bromide. Hyoscine Hydrobrom.

Hyoscyamine. Hyoscyamus.

Lactucarium.

Lavender. Lobelia.

Morphine.

Paraldehyde.

Scopolamine Hydrobromide.

Stramonium; tincture.

Sulfonal.

Urethane.

Valerian and Valerianates

> SIALAGOGUES. (Ptyalagogues).

Acids and Alkalies. Antimony Compounds.

Capsicum. Ginger.

Iodine Compounds.

Mercurials.

Muscarine.

Mustard.

Pilocarpine Hydrochlor, Iron Subsulphate.

Pyrethrum.

Soporifics. See Hypnotics.

SPINAL STIMULANTS. See also Motor Excitants.

Alcohol. Atropine.

Camphor: small doses.

Nux Vomica.

Picrotoxin Strychnine.

STERNUTATORIES. See Errhines

> STOMACHICS. See Gastric Tonics.

STYPTICS HEMO-AND STATICS.

Acid, Gallic.

Tannic. Adrenalin

Alum.

Antipyrine.

Copper Sulphate.

Extract Suprarenal

Capsule. Hamamelis.

Hydrastinine Hydro-

chlorate.

Iron Chloride, Ferric.

Iron Sulphate. Lead Acetate.

Manganese Sulphate.

Oil Turpentine. Silver Nitrate.

Stypticin.

Terpinol.

SUDORIFICS. Diaphoretics.

TENIAFUGES. See Anthelmintics.

TONICS, GENERAL.

See also Hematinics.

Vegetable Tonics:

Ichthyol.

Iron Compounds.

Manganese Compounds.

Phosphorus.

Bitters.

Berberine Carbonate.

VASO-CONSTRICTORS.

Cinchona Alkaloids and Adrenalin. Salts.

Cod-Liver Oil. Eucalyptus.

Hydrastis. Ouassin.

Salicin.

Ergot.

Extract Suprarenal

Capsule.

Hydrastinine Hydro-

chlorate. Stypticin.

Mineral Tonics:

Acids, Mineral.

Acid, Arsenous and its salts.

Acid, Hypophosphorous. Nitroglycerin. Acid. Lactic.

Bismuth Salts. Calcium Glycerinophos. Spirit Nitrous Ether. Copper Salts: small doses

Gold Salts.

Glycerinophosphates.

Hypophosphites.

VASO-DILATORS.

Amyl Nitrite.

Ether.

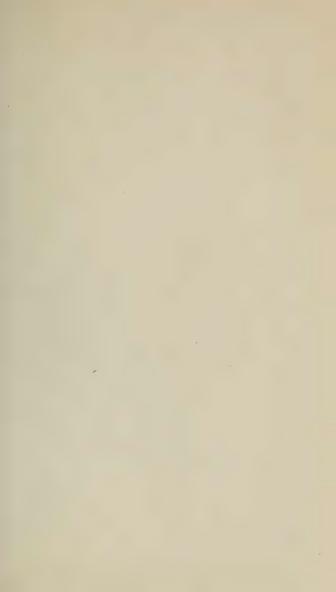
Potassium Nitrite.

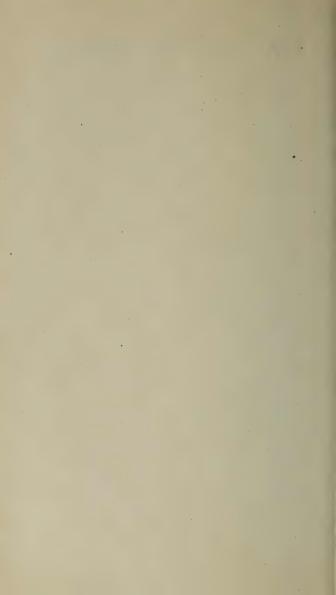
Sodium Nitrite.

VERMICIDES. See Anthelmintics.

VESICANTS. See Irritants

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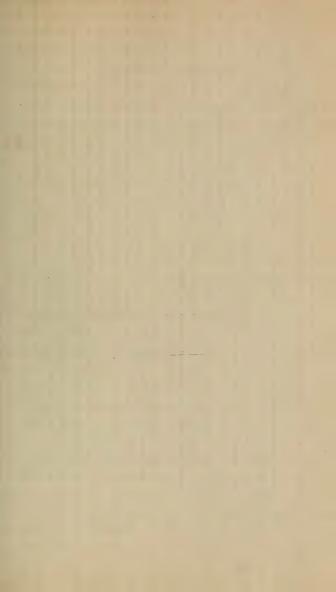


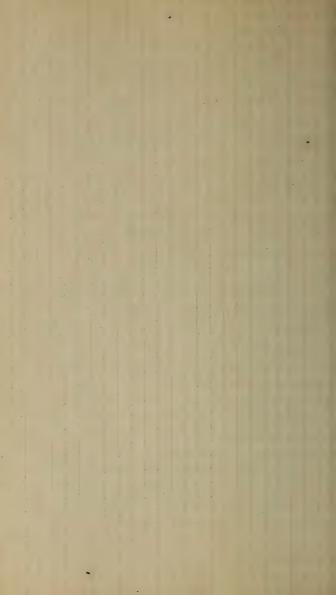
























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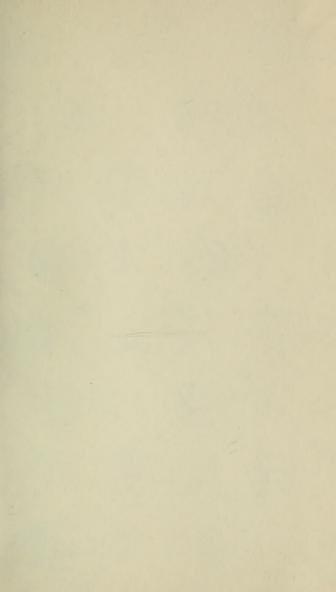
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